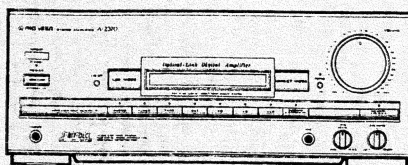


# Service Manual

**PIONEER**  
The Art of Entertainment



ORDER NO.  
**ARP2158**

## STEREO AMPLIFIER **A-Z370**

MODEL A-Z370 HAS FOLLOWING VERSIONS :

Type	Power requirement	Export destination
HE	AC220V, 240V(switchable) *	European continent
HB	AC220V, 240V(switchable) *	United Kingdom
HEWZIW	AC220V, 240V(switchable) *	Germany and Italy
SD	AC110V, 120V-127V, 220V, 240V(switchable)	Kingdom of Saudi Arabia and general market

\* : Change the primary wiring.

- This manual is applicable to the A-Z370/HE, HB and HEWZIW types.
- As to the HB and HEWZIW types, refer to page 37.
- As to the other types, refer to applicable service manuals.
- This product is a component of a system. As to the system composition, refer to the system manual.
- This product does not function properly when independent ; to avoid malfunctions, be sure to connect it to the prescribed system component, otherwise damage may result.

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**PIONEER ELECTRONIC CORPORATION** 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan  
**PIONEER ELECTRONICS SERVICE INC.** P.O. Box 1760, Long Beach, California 90801 U.S.A.  
**PIONEER ELECTRONICS OF CANADA, INC.** 505 Cochrane Drive, Markham, Ontario L3R 8E3 Canada  
**PIONEER ELECTRONIC [EUROPE] N.V.** Keetberglaan 1, 2740 Feveeren, Belgium  
**PIONEER ELECTRONICS AUSTRALIA PTY. LTD.** 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911  
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## 1. SPECIFICATIONS

Continuous Power Output (DIN) ..... 60 W + 60 W  
(1 kHz, T.H.D. 1 %, 8 Ω)  
Music power (DIN) ..... 100 W + 100 W (1 kHz, T.H.D. 1 %, 8 Ω)  
D/A converter section  
Signal-to-Noise Ratio ..... More than 96 dB (EIAJ)  
Dynamic range ..... More than 94 dB (EIAJ)  
Frequency range ..... 25 Hz to 20 kHz  
Total Harmonic Distortion (1 kHz, 30 W, 8 Ω)  
..... No more than 0.06 %\*\*

Input sensitivity  
PHONO (MM) ..... 2.5 mV  
VCR ..... 150 mV  
LD ..... 250 mV  
Output level  
DAT, VCR ..... 150 mV  
MUTING ..... -∞

### Power Supply/Miscellaneous

Power requirements ..... a.c. 240 Volts~, 50/60 Hz  
Power consumption ..... 300 W  
AC outlets switched (x 1) ..... 50 W  
Dimensions ..... 360 (W) x 343 (D) x 135.5 (H) mm  
Weight (without package) ..... 8.2 kg

### Accessories

Operating instructions ..... 1  
Remote control unit ..... 1  
Dry cell batteries "AAA" (IEC R03/UM-4) ..... 1

\*\* Measured By Audio Spectrum Analyzer.

## 2. EXPLODED VIEWS, PACKING AND PARTS LIST

### NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

### 2.1 PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	VOL KNOB(VOLUME)	AAB1117		49	REAR PANEL	
	2	ROTARY KNOB(MIC LEVEL,BALANCE)	AAB1130		50	BOTTOM PLATE	
	3	POWER BUTTON	AAD1595		51	BONNET CASE	ANE1208
	4	BOTTUN L (LSS MODE)	AAD1596		52	TRANS. HOLDER	
	5	BUTTON L (DIRECT MODE)	AAD1597		53	HEAT SINK HOLDER	
	6	KIN BUTTON (MUTING, LSS SET)	AAD1682		54	VOLUME HOLDER	
	7	FUNCTION BUTTON	AAD1967		55	HOLDER	
	8	BUTTON S (SPEAKERS)	AAD1970		56	HOLDER A	
	9	LENS L	AAK1757		57	HEAT SINK	
	10	LENS S	AAK1758		58	HEAT SINK	
	11	LENS	AAK1759		59	GROUND PLATE	
	12	SHEET			60	OPERATING INSTRUCTIONS	ARC1248
	13	SHEET				(Dutch, Swedish, Spanish, Portuguese)	
	14	PVC SHEET			61	OPERATING INSTRUCTIONS	ARE1180
	15	PANEL	AAK2116			(English, German, French, Italian)	
	16	.....			62	WARRANTY CARD	
	17	NAME PLATE(PLASTIC)			63	.....	
	18	NAME PLATE			64	DAC ASSEMBLY	AWK1384
	19	SCREW (STEEL)	ABA-283		65	MIC ASSEMBLY	
	20	SCREW	ABA-298		66	HEAD PHONE ASSEMBLY	
	21	SCREW (STEEL)	ABA1009		67	SUB TRANS ASSEMBLY	
	22	SCREW (STEEL)	ABA1011		68	POWER VR ASSEMBLY	
	23	SCREW	ABA1018		69	RELAY ASSEMBLY	
	24	SCREW (STEEL)	ABA1047		70	SP TERMINAL ASSEMBLY	
	25	SCREW (STEEL)	ABA1050		71	FUSE ASSEMBLY	
	26	SCREW (STEEL)	ABA1072	●	72	DISPLAY ASSEMBLY	AWZ3360
	27	SCREW	ABA1098	●	73	AF ASSEMBLY	AWZ3402
Δ	28	AC POWER CORD	ADG1019	●	74	POWER ASSEMBLY	AWZ2734
	29	RUBBER CUSHION		●	75	STANDBY ASSEMBLY	AWZ3505
	30	.....			76	REMOTE CONTROLLER	AXD1193
					(CU-AZ019)		
	31	NYLON RIVET	AEC-510		77	SCREW	BBZ26P060FMC
	32	STRAIN RELIEF	AEC-882		78	SCREW	BBZ26P080FMC
	33	PCB SUPPORT			79	NUTS	NK90FZB
	34	.....			80	FOOT(PLASTIC)	RXA1276
	35	BATTERY (R03, AAA)			81	.....	
	36	FRONT PAD	AHA1272	Δ	82	FU1 FUSE(T2.5A)	AEK-403
	37	REAR PAD	AHA1273	Δ	83	FU2 FUSE(T2A)	AEK-017
	38	PACKING CASE	AHD2007	Δ	84	FU3 FUSE(T1.6A)	AEK-405
	39	LITERATURE BAG		Δ	85	FU4 FUSE(T1.6A)	AEK-405
	40	PACKING SHEET	AHG1016	Δ	86	FU5 FUSE(T2A)	AEK-017
	41	TERMINAL SCREW		Δ	87	T1 POWER TRANSFORMER	ATS1223
	42	MOUNTING PLATE			88	BATTERY COVER	AZN2072
	43	FRONT PANEL ASSY	AMB1759				
	44	PCB MOULD					
	45	LEG ASSY(S)					
	46	PLATE	AMR2133				
	47	SASH					
	48	CHASSIS					

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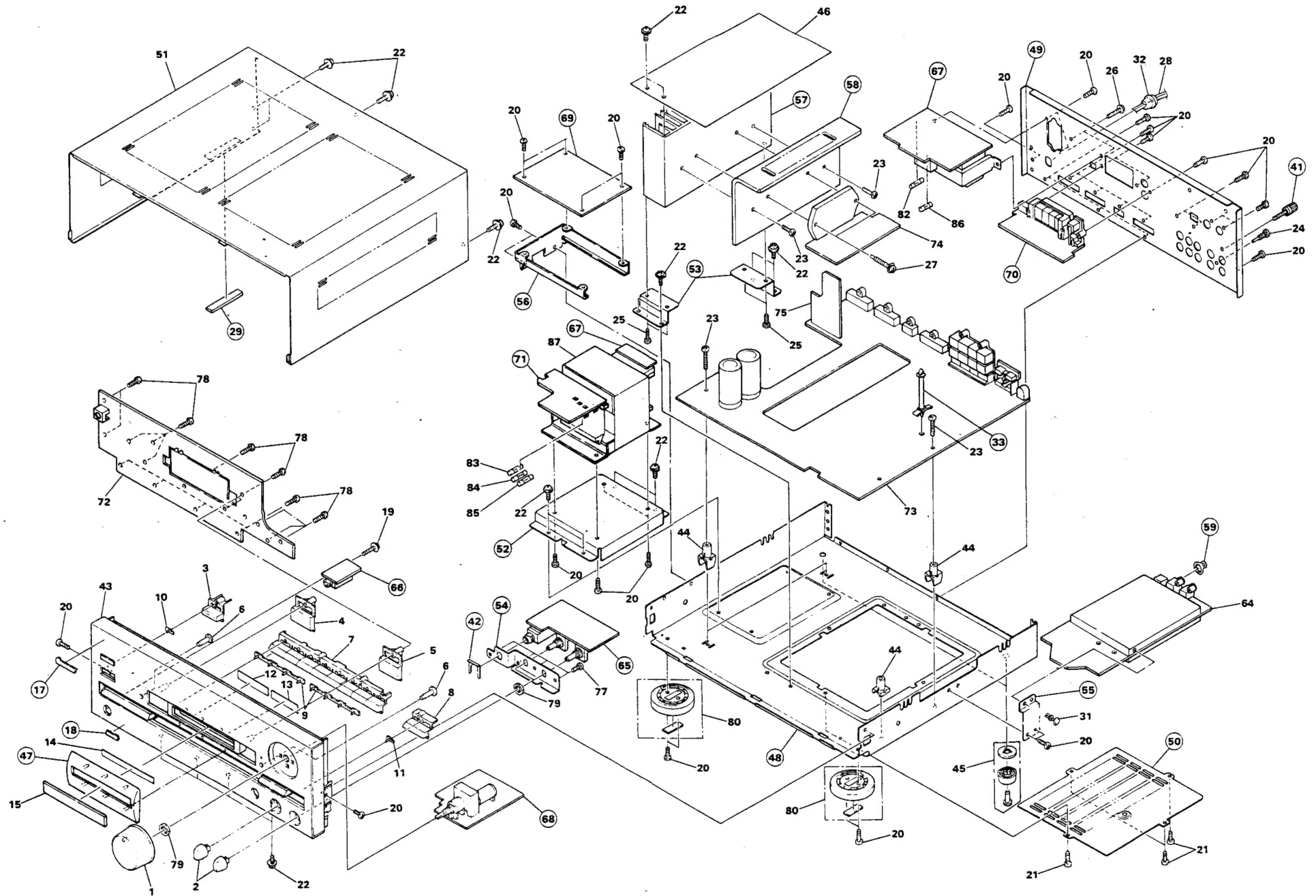
## 2. 2 EXPLODED VIEWS

A

B

C

D



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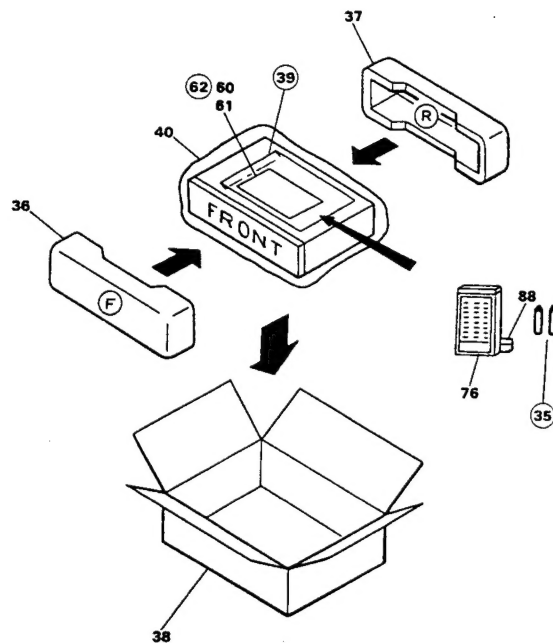
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## 2.3 PACKING



## 3. P.C.B's PARTS LIST

## NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω 56 × 10<sup>1</sup> 561 ..... RD1/4PS561J  
 47kΩ 47 × 10<sup>3</sup> 473 ..... RD1/4PS473J  
 0.5Ω 0R5 ..... RD2H0R5K  
 1Ω 010 ..... RD1P010K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ 562 × 10<sup>1</sup> 5621 ..... RD1/4SR5621F

Mark	Symbol & Description	Part No.	Mark	Symbol & Description	Part No.
<b>DAC ASSEMBLY (AWK1384)</b>			C818	ELECTR.CAPACITOR	CEAS101M10
<b>SEMICONDUCTORS</b>			C819	MICA CAPACITOR	CMA220J500
IC801	LOGIC IC	TC74HCU04AP	C820	ELECTR.CAPACITOR	CEAS470M10
IC802	DIGITAL LP IC	PD0037	C821,C822	CERAMIC CAPACITOR	CKDYX473M16
IC803	IC DIGITAL FILTER	PD0060	C823	CERAMIC CAPACITOR	ACG1021
IC804	LOGIC IC	TC74HC32AP	C824	ELECTR.CAPACITOR	CEAS010M50
IC805	D/A CONVERTER	SAA7350GP	C825	ELECTR.CAPACITOR	CEAS101M10
IC806,IC807	IC	NJM072D-E	C826	CERAMIC CAPACITOR	ACG1021
IC808	OP-AMP IC	RC4558DXP	C827	CERAMIC CAPACITOR	CKDYX473M16
Q801,Q802	TRANSISTOR	RN2203	C828	ELECTR.CAPACITOR	CEAS470M10
Q804,Q805	TRANSISTOR	2SC2458	C829	CERAMIC CAPACITOR	CKDYX473M16
Q806,Q807	TRANSISTOR	2SC2878	C830	ELECTR.CAPACITOR	CEAS470M10
Q808,Q809	TRANSISTOR	RN1203	C831,C832	CERAMIC CAPACITOR	ACG1019
Q810	TRANSISTOR	RN2203	C833,C834	CERAMIC CAPACITOR	CCDSL390J50
Q811	TRANSISTOR	RN2201	C835	CERAMIC CAPACITOR	ACG1019
Q812	TRANSISTOR	RN2203	C836	CERAMIC CAPACITOR	CKDYB471K50
D801,D809,D810	DIODE	HSS104-02	C837,C838	CERAMIC CAPACITOR	CCDSL390J50
D811	ZENER DIODE	RD6.2ESB	C839,C840	CERAMIC CAPACITOR	CKDYX473M16
<b>COIL</b>			C841,C842	ELECTROLYTIC CAPACIT	CEAS470M10
L801	AXIAL INDUCTOR	LAU330K	C843	CERAMIC CAPACITOR	CKDYX473M16
L809	FERRITE BEAD	ATX1008	C844,C845	CERAMIC CAPACITOR	CKDYB222K50
L814	FERRITE BEAD	ATX1008	C847	ELECTR.CAPACITOR	CEAS101M10
L818	FERRITE BEAD	ATX1008	C848	CERAMIC CAPACITOR	CKDYX473M16
L821,L822	AXIAL INDUCTOR	LAU220K	C849,C852	ELECTROLYTIC CAPACIT	CEAS470M10
L823,L826	AXIAL INDUCTOR	LAU010M	C853,C854	CERAMIC CAPACITOR	CKDYX473M16
L827	FERRITE BEAD	ATX1008-A	C855-C858	CERAMIC CAPACITOR	ACG1017
<b>CAPACITORS</b>			C859,C860	MYLOR FILM CAPACITOR	CQMA102J50
C805	CERAMIC CAPACITOR	CKDYX473M16	C861,C862	PLSTYRENE CAPACITOR	CQSA101J50
C806	CERAMIC CAPACITOR	ACG1021	C863,C864	ELECTROLYTIC CAPACIT	CEYA2R2M50
C807	ELECTR.CAPACITOR	CEAS010M50	C865,C866	MYLOR FILM CAPACITOR	CQMA683J50
C808	CERAMIC CAPACITOR	ACG1021	C867,C868	CERAMIC CAPACITOR	ACG1018
C809	ELECTR.CAPACITOR	CEAS101M10	C869,C870	ELECTROLYTIC CAPACIT	CEYA2R2M50
C810	ELECTR.CAPACITOR	CEAS010M50	C871-C876	ELECTR.CAPACITOR	CEAS470M10
C811	AUDIO FILM CAPACITOR	CPTXA224J50	<b>RESISTORS</b>		
C812	ELECTR.CAPACITOR	CEAS470M10	R870-R873	CARBON FILM RESISTOR	RD1/4PM390J
C813	CERAMIC CAPACITOR	ACG1021	Other resistors		
C814	CERAMIC CAPACITOR	CCDCH220J50	<b>OTHERS</b>		
C815	ELECTR.CAPACITOR	CEAS101M10	DIGITAL JACK 1-P	AKB1073	
C816	CERAMIC CAPACITOR	ACG1022	PHOTO SENSOR MODULE	AKX1015	



Mark	Symbol & Description	Part No.
	CN1 CONNECTOR(11P)	KPE11
	T801 OSC TRANSFORMER	ATX1003

## MIC ASSEMBLY

### SEMICONDUCTORS

IC601 OP-AMP IC	RC4558DXP
Q601,Q602 TRANSISTOR	2SC2458
D601,D602 DIODE	HSS104-02

### CAPACITORS

C601 ELECTROLYTIC CAPACIT	CEJA220M16
C602 CERAMIC CAPACITOR	ACG1019
C603 ELECTROLYTIC CAPACIT	CEJA3R3M50
C604 CERAMIC CAPACITOR	ACG1017
C605 AUDIO FILM CAPACITOR	CPTXA474J50

C606 CERAMIC CAPACITOR	CKCYB681K50
C607 ELECTROLYTIC CAPACIT	CEJA100M25
C608 ELECTR.CAPACITOR	CEJA010M50
C609 ELECTR.CAPACITOR	CEAS470M10
C610 ELECTR.CAPACITOR	CEJA470M10

C611 CERAMIC CAPACITOR	CKCYF103Z50
C612,C613 ELECTROLYTIC CAPACIT	CEJA100M25

### RESISTORS

R614,R615 CARBON FILM RESISTOR	RD1/4PM390J
VR601 VARIABLE(100K-X1)	ACS1026
VR602 VARIABLE( 10K-X1)	ACS1025
Other resistors	RD1/8PM□□□□

### OTHERS

JACK	AKN1017
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## HEAD PHONE ASSEMBLY

### CAPACITOR

C451 CERAMIC CAPACITOR	CKDYX104M25
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### RESISTORS

△ R453-R456 METAL OXIDE RESISTOR	RS2LMF331J
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### OTHERS

JACK	AKN1010
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## SUB TRANS ASSEMBLY

### SEMICONDUCTORS

D191,D192 ZENER DIODE	RD6.2ESB3
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### CAPACITORS

C191,C192 CKA (0.01/AC400V)	ACG1003
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### OTHERS

AC SOCKET 1-P	AKP1034
SOCKET 8-P	AKP1045
RY191 RELAY	ASR1024
T191 POWER TRANSFORMER	ATT1115

## POWER VR ASSEMBLY

### SEMICONDUCTORS

IC651 OP-AMP IC	RC4558DXP
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Mark	Symbol & Description	Part No.
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### CAPACITORS

C651,C652 ELECTR.CAPACITOR	CEAS100M25
C653 ELECTR.CAPACITOR	CEAS470M10
C654 ELECTROLYTIC CAPACIT	CEYA470M25
C655 CERAMIC CAPACITOR	CKCYX103M25
C656 ELECTROLYTIC CAPACIT	CEYA470M25

C657,C658 CERAMIC CAPACITOR	CCCSL390J50
C661,C662 ELECTR.CAPACITOR	CEAS100M50

### RESISTORS

R659-R661 CARBON FILM RESISTOR	RD1/4PM390J
VR651 VARIABLE RESISTOR	ACX1027
Other resistors	RD1/8PM□□□□

### OTHERS

CN2 CONNECTOR(15P)	KPE15
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## ●DISPLAY ASSEMBLY (AWZ3360)

### SEMICONDUCTORS

IC701 SYSTEM CONTROL IC	PD5160A
Q701-Q704 TRANSISTOR	DTA124ES
Q705,Q706 TRANSISTOR	DTA143ES
Q711 TRANSISTOR	DTC124ES
Q712,Q713 TRANSISTOR	2SC2458

Q716 TRANSISTOR	DTC124ES
Q717,Q718 TRANSISTOR	2SC2458
Q719 TRANSISTOR	2SA1048
Q720 TRANSISTOR	2SC2458
Q721-Q723 TRANSISTOR	2SA1048

D701,D702 DIODE	HSS104-02
D703 LED(RED)	AEL1099
D704-D706 DIODE	HSS104-02
D707,D708 LED(RED)	AEL1099
D709 LED	AEL1100

D710-D715 LED(RED)	AEL1099
D719-D721 DIODE	HSS104-02
D722 LED(RED)	AEL1099
D723 DIODE	HSS104-02
D725,D726 LED	AEL1091

D727 LED	AEL1074
D728 LED(RED)	AEL1038
D729 LED	AEL1091
D731 DIODE	HSS104-02

### SWITCHES

S701-S714 SWITCH	ASG1029
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### COIL

L701 AXIAL INDUCTOR	LAU101K
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### CAPACITORS

C701 CERAMIC CAPACITOR	CKCYX473M25
C702 ELECTR.CAPACITOR	CEAS221M10
C703,C704 CERAMIC CAPACITOR	CKCYX103M25
C705 CERAMIC CAPACITOR	CKCYB102K50
C706 ELECTR.CAPACITOR	CEAS010M50

C707 CEA (47000/5.5V)	ACH1070
C708 ELECTR.CAPACITOR	CEAS4R7M50
C709,C710 CERAMIC CAPACITOR	ACG1021
C711 CERAMIC CAPACITOR	CKCYX473M25

Mark	Symbol & Description	Part No.
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### RESISTORS

R742 RESISTOR ARRAY 100K	RA5T104J
R744 RESISTOR ARRAY(100K)	RA6T104J
R761 RESISTOR ARRAY (10K)	RA4T104J
Other resistors	RD1/8PM□□□□

### OTHERS

X701 CERAMIC RESONATOR	ASS1025
SOCKET(10P)	AKP1044
REMOTE RECEIVER UNIT	AXX1010

## RELAY ASSEMBLY

### SEMICONDUCTORS

Q451 TRANSISTOR	DTC124ES
Q452,Q453 TRANSISTOR	2SD438
Q454 TRANSISTOR	DTC124ES
Q455,Q456 TRANSISTOR	2SD438
D451-D460 ZENER DIODE	RD12ESB3

### COILS

L451,L452 COIL	ATH1004
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### CAPACITORS

C461-C464 MYLOR FILM CAPACITOR	CQMA104J50
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### RESISTORS

R461-R464 CARBON FILM RESISTOR	RD1/4PMFL100J
R474-R476 METAL OXIDE RESISTOR	RS2LMF821J
Other resistors	RD1/8PM□□□□

### OTHERS

CN451 CONNECTOR(7P)	KPC7
RY451-RY455 RELAY	ASR-112

## SP TERMINAL ASSEMBLY

### SWITCHES

S451 SWITCH	ASH1015
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### CAPACITORS

C465 ELECTROLYTIC CAPACIT	CEANP4R7M100
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### OTHERS

PIN JACK(2P)	AKB1039
SPEAKER TERMINAL 8-P	AKE-111
CN453 JUMPER CONNECTOR	KPC8

## ●POWER ASSEMBLY (AWZ2734)

### SEMICONDUCTORS

IC401 AUDIO IC	STK4192-2GP
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### CAPACITORS

C401,C402 POLYESTER CAPACITOR	CQMXA472J100
C403 ELECTR.CAPACITOR	CEAS4R7M50
C404 ELECTROLYTIC CAPACIT	CEHAQ4R7M50
C405,C406 CERAMIC CAPACITOR	CCDSL470J50
C407,C408 ELECTROLYTIC CAPACIT	CEYA101M50

C413,C414 ELECTR.CAPACITOR	CEAS220M50
C415,C416 ELECTR.CAPACITOR	CEAS470M50
C417,C418 ELECTR.CAPACITOR	CEAS101M25
C423 ELECTR.CAPACITOR	CEAS470M50
C427-C430 ELECTROLYTIC CAPACIT	CEYA220M50

Mark	Symbol & Description	Part No.
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### RESISTORS

R405,R406 CARBON FILM RESISTOR	RDR1/4PM563J
R411-R414 CARBON FILM RESISTOR	RD1/2PM332J
R417,R418 CARBON FILM RESISTOR	RD1/4PMFL222J
R419 CARBON FILM RESISTOR	RD1/2PM102J
R420 CARBON FILM RESISTOR	RD1/4PMFL101J

### △

R421 CARBON FILM RESISTOR	RD1/4PMFL471J
R422 CARBON FILM RESISTOR	RD1/4PMFL101J
Other resistors	RD1/8PM□□□□

## FUSE ASSEMBLY

### CAPACITORS

C390 MYLOR FILM CAPACITOR	CQMA104K250
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## ●AF ASSEMBLY (AWZ3402)

### SEMICONDUCTORS

IC101 REGULATOR IC	UPC78M05H
IC102 REGULATOR IC	NJM78M56FA5
IC103 REGULATOR IC	NJM79M05FA
IC104 REGULATOR IC	UPC78M12H
IC105 MECHANISM DRIVER IC	TA7291S

IC201 OP-AMP IC	RC4558DXP
IC202 LOGIC IC	TC4066BP
IC203 LOGIC IC	MC14052BCP
IC204 OP-AMP IC	M5218ALF
IC205 LOGIC IC	TC4066BP

IC206 LOGIC IC	MC14052BCP
IC207 OP-AMP IC	RC4558DXP
IC301,IC302 GEQ IC	LA3607
IC303 GEQ EVR IC	LC7522
Q101 TRANSISTOR	2SB560

Q102 TRANSISTOR	2SA970
Q103-Q105 TRANSISTOR	2SC2458
Q106 TRANSISTOR	2SD438
Q107,Q108 TRANSISTOR	DTC124ES
Q551 TRANSISTOR	2SA1048

Q552 TRANSISTOR	2SC2603
Q553 TRANSISTOR	2SA1048
D101 DIODE	RBV402
D102-D107 DIODE	S5566
D108 DIODE	RB152

D109 DIODE	HSS104-02
D110 ZENER DIODE	RD33ESB2
D111 ZENER DIODE	RD6.2ESB
D112,D113 DIODE	HSS104-02
D114 ZENER DIODE	RD3.0ESB1

D115 DIODE	HSS104-02
D116 ZENER DIODE	RD4.7ESB
D117 DIODE	HSS104-02

### CAPACITORS

C101 CKA (0.01/AC250V)	ACG1005
C102,C103 CERAMIC CAPACITOR	CKDYF103Z50
C104,C105 ELECTROLYTIC CAPACIT	ACH1031
C106,C107 ELECTR.CAPACITOR	CEAS222M16
C108 ELECTR.CAPACITOR	CEAS471M50

C109 ELECTR.CAPACITOR	CEAS332M25
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Mark	Symbol & Description	Part No.
	C110 ELECTR.CAPACITOR	CEHAQ101M50
	C111,C112 ELECTR.CAPACITOR	CEAS101M50
	C113 ELECTROLYTIC CAPACIT	CEHAQ220M50
	C114 ELECTROLYTIC CAPACIT	CEHAQ470M50
	C115 ELECTROLYTIC CAPACIT	CEHAQ470M16
	C116 ELECTROLYTIC CAPACIT	CEHAQ221M10
	C117 ELECTR.CAPACITOR	CEAS100M25
	C118 CERAMIC CAPACITOR	CKCYX103M25
	C119 ELECTR.CAPACITOR	CEAS221M10
	C120 ELECTR.CAPACITOR	CEAS010M50
	C121 CERAMIC CAPACITOR	ACG1021
	C201,C202 CERAMIC CAPACITOR	ACG1017
	C203-C206 ELECTR.CAPACITOR	CEAS2R2M50
	C207,C208 CERAMIC CAPACITOR	ACG1017
	C209,C210 CERAMIC CAPACITOR	CKCYB152K50
	C211,C212 CERAMIC CAPACITOR	CKCYB562K50
	C213,C214 ELECTR.CAPACITOR	CEAS010M50
	C215,C216 ELECTR.CAPACITOR	CEAS470M10
	C217,C218 ELECTR.CAPACITOR	CEAS4R7M50
	C219,C220 ELECTR.CAPACITOR	CEAS100M25
	C221,C222 ELECTROLYTIC CAPACIT	CEYA470M50
	C223,C224 ELECTR.CAPACITOR	CEAS100M25
	C225,C226 CERAMIC CAPACITOR	ACG1018
	C227,C228 CERAMIC CAPACITOR	ACG1019
	C229,C230 CERAMIC CAPACITOR	ACG1017
	C231-C234 ELECTR.CAPACITOR	CEAS100M25
	C237 CERAMIC CAPACITOR	CKDYX104M25
	C238 CERAMIC CAPACITOR	CKDYF473Z50
	C239,C240 ELECTR.CAPACITOR	CEAS2R2M50
	C241,C242 ELECTR.CAPACITOR	CEAS100M25
	C247,C248 ELECTROLYTIC CAPACIT	CEYA470M50
	C301,C302 ELECTROLYTIC CAPACIT	CEASR15M50
	C303,C304 ELECTR.CAPACITOR	CEASR47M50
	C305,C306 CERAMIC CAPACITOR	CKCYX683M25
	C307,C308 ELECTROLYTIC CAPACIT	CEASR15M50
	C309,C310 CERAMIC CAPACITOR	CKCYX273M25
	C311,C312 CERAMIC CAPACITOR	CKCYX683M25
	C313,C314 CERAMIC CAPACITOR	CKCYX103M25
	C315,C316 CERAMIC CAPACITOR	CKCYX273M25
	C317,C318 CERAMIC CAPACITOR	CKCYB472K50
	C319,C320 CERAMIC CAPACITOR	CKCYX103M25
	C321,C322 CERAMIC CAPACITOR	CKCYB331K50
	C323,C324 ELECTR.CAPACITOR	CEAS220M16
	C325,C326 CERAMIC CAPACITOR	CKCYB472K50
	C327-C330 CERAMIC CAPACITOR	CKCYB182K50
	C331,C332 CERAMIC CAPACITOR	CKCYB681K50
	C333,C334 ELECTR.CAPACITOR	CEAS220M16
	C335-C340 ELECTR.CAPACITOR	CEAS221M10

#### RESISTORS

△	R101,R102 METAL OXIDE RESISTOR	RS2LMFR22J
△	R103 METAL OXIDE RESISTOR	RS2LMF222J
△	R105,R106 CARBON FILM RESISTOR	RD1/4PMF470J
△	R129 CARBON FILM RESISTOR	RD1/2PMFL2R2J
△	R132 CARBON FILM RESISTOR	RD1/4PM100J
	R133-R135 CARBON FILM RESISTOR	RD1/4PM100J
△	R136 METAL OXIDE RESISTOR	RS3LMF2R2J
	R217,R218 CARBON FILM RESISTOR	RD1/4PM390J
	R257,R258 CARBON FILM RESISTOR	RD1/4PM390J

Mark	Symbol & Description	Part No.
	R321-R324 CARBON FILM RESISTOR	RD1/4PM390J
	R327,R328 CARBON FILM RESISTOR	RD1/4PM390J
	Other resistors	RD1/8PM□□□J
<b>OTHERS</b>		
	PHONO JACK 4-P	AKB-115
	PIN JACK(6P)	AKB1123
	PLUG(10P)	AKM1037
	JACK	AKN-203
	SOCKET(4P)	AKP1046
	SOCKET(13P)	AKP1047
	SOCKET(14P)	AKP1048
	SOCKET(15P)	AKP1049
	SCREW	PBZ30P080FMC

#### ●STANDBY ASSEMBLY (AWZ3505)

#### SEMICONDUCTORS

IC151 REGULATOR IC	NJM78M56FAS
Q152 TRANSISTOR	2SB560
Q554 TRANSISTOR	2SD438
D151-D154 DIODE	S5566
D156 ZENER DIODE	RD33ESB2
D157 ZENER DIODE	RD6.2ESB

#### CAPACITORS

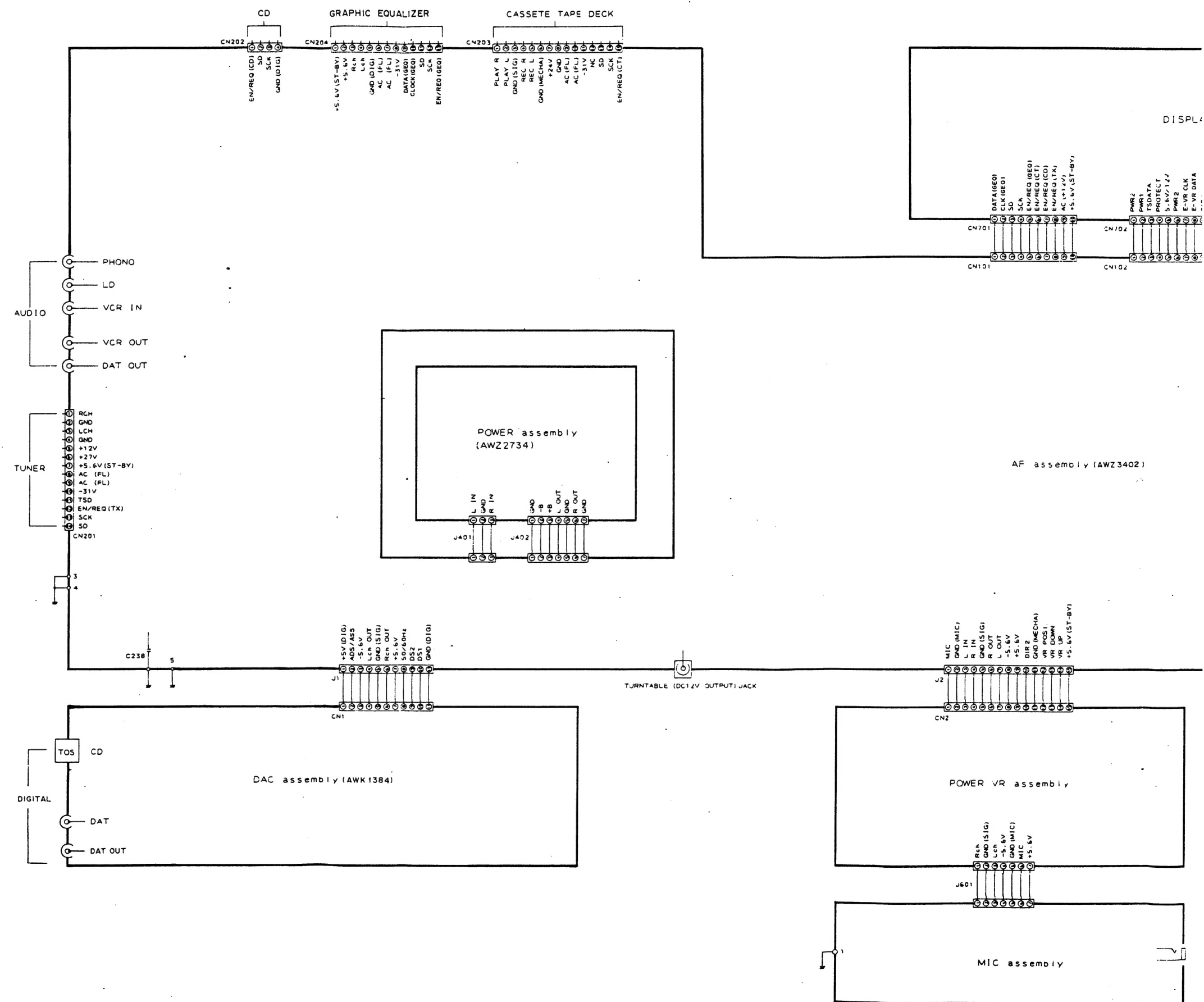
C151 ELECTROLYTIC CAPACIT	CEHAQ222M16
C152 ELECTROLYTIC CAPACIT	CEHAQ471M16
C153,C156 ELECTROLYTIC CAPACIT	CEHAQ221M50
C157 ELECTROLYTIC CAPACIT	CEHAQ220M50
C158 ELECTROLYTIC CAPACIT	CEHAQ470M50
C159 ELECTROLYTIC CAPACIT	CEHAQ221M10

#### RESISTORS

△ R151,R152 METAL OXIDE RESISTOR	RS3LMF122J
△ R153 METAL OXIDE RESISTOR	RS2LMF222J
△ R157 CARBON FILM RESISTOR	RD1/4PMFL4R7J
Other resistors	RD1/8PM□□□J

# 4. SCHEMATIC DIAGRAMS AND P.C.BOARD CONNECTION DIAGRAMS

## 4.1 OVER ALL SCHEMATIC DIAGRAM





- A

- 1

- A+B



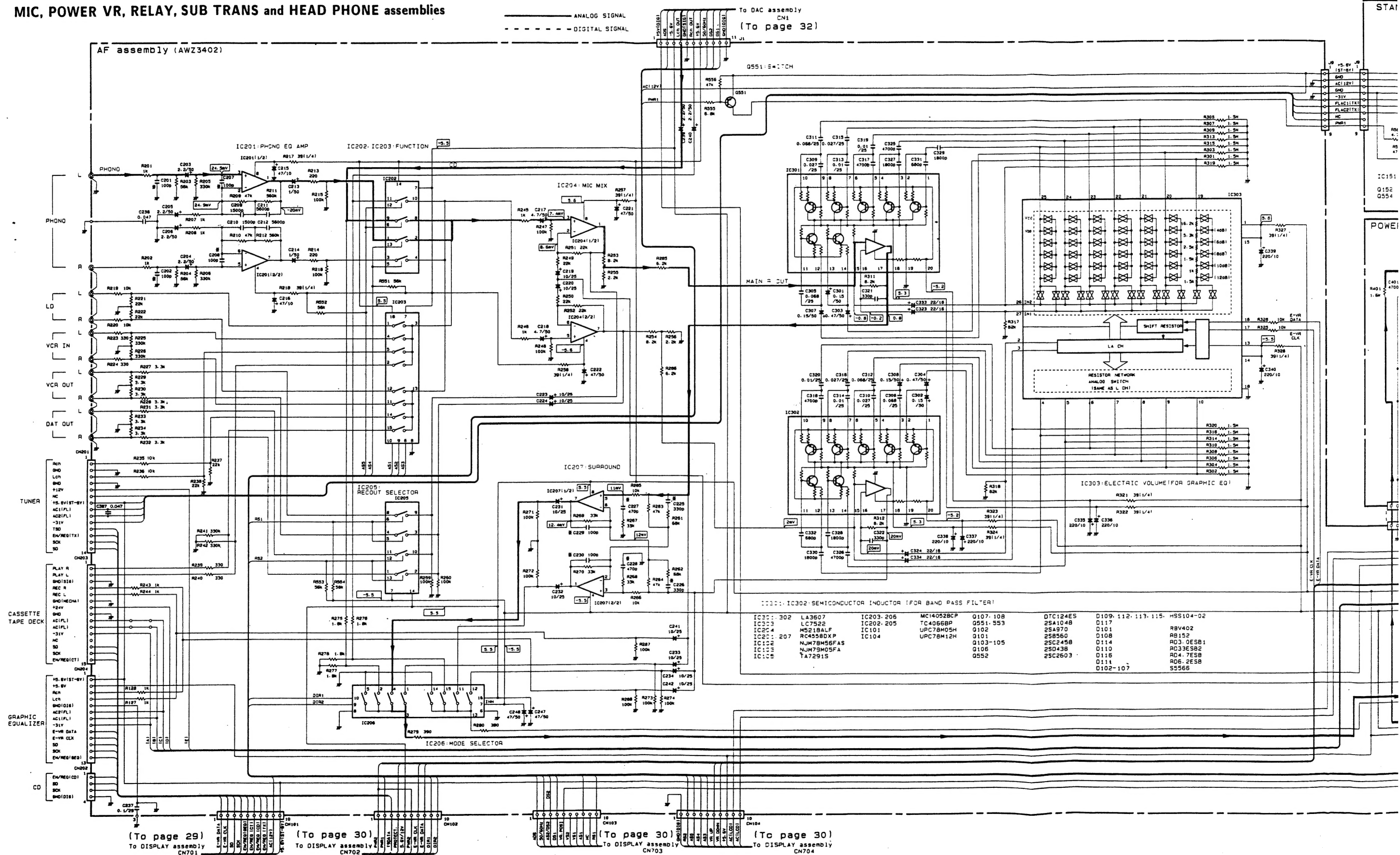
# 4.2 AF(AWZ3402), STANDBY(AWZ3505), SP TERMINAL, FUSE, POWER(AWZ2734), MIC, POWER VR, RELAY, SUB TRANS and HEAD PHONE assemblies

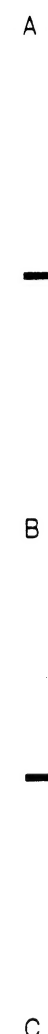
A

B

C

D





**Line Voltage Selection (HE, HB AND HEWZIW TYPES)**  
Line voltage can be changed with the following steps.

1. Disconnect the AC power cord.
2. Remove the top cover.
3. Change the position of the connection wires to SUB TRANS ASSEMBLY (1/2) from SUB TRANS ASSEMBLY (2/2) as follows.

Voltage	Connection Wire(A)	Connection Wire(B)
220V	○	×
240V	×	○

○ : Be needed                      × : Be needless

4. Change the position of the jumper wires (C) and (D) as follows.  
(SUB TRANS ASSEMBLY(1/2)).

Voltage	Jumper Wire ㉔	Jumper Wire ㉕
220V	○	×
240V	×	○

○ : Be needed                      × : Be needless

- 5. Stick the line voltage label on the rear panel.**

Parts No.	Description
AXX-193	220V label
AXX-192	240V label



1

2

3

4

5

6

AF assembly (AWZ3402)

TURNTABLE  
DC 12V

PHONO

DAT  
OUT

VCR  
OUT

VCR  
IN

LD  
IN

TUNER

CD

CASSETTE  
TAPE  
DECK

GRAPHIC  
EQUALIZER

IC201  
IC202  
IC206

IC205  
IC204

IC203  
IC207

IC301  
IC101  
IC302  
IC105  
IC303

Q103  
Q102  
Q106

Q104  
Q105

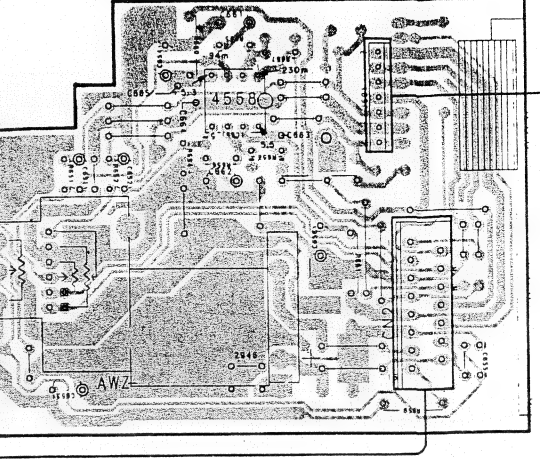
Q108  
Q107

Q101  
Q552

Q551  
Q553

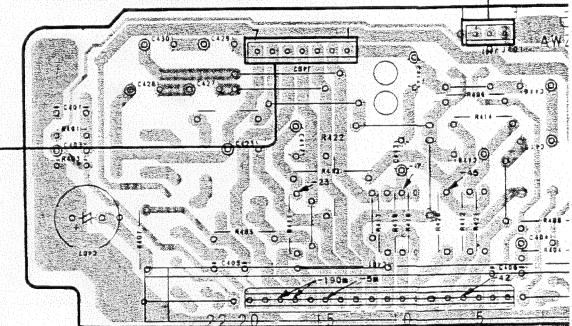
To DAC assembly CN1  
(To page 33)

POWER VR assembly



To DISPLAY assembly CN704  
(To page 28)

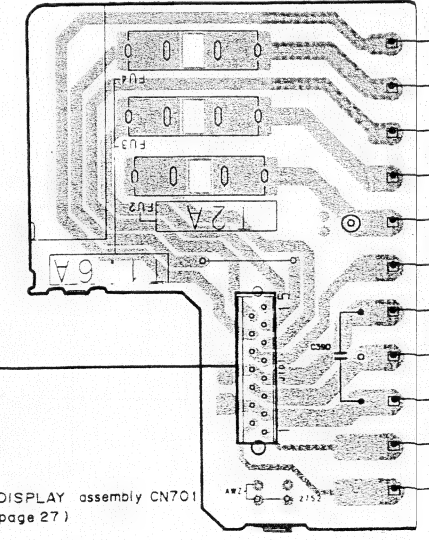
POWER assembly (AWZ2734)



To DISPLAY assembly CN703  
(To page 28)

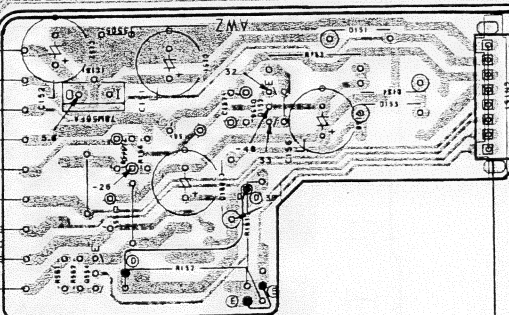
To DISPLAY assembly CN702  
(To page 27)

FUSE assembly



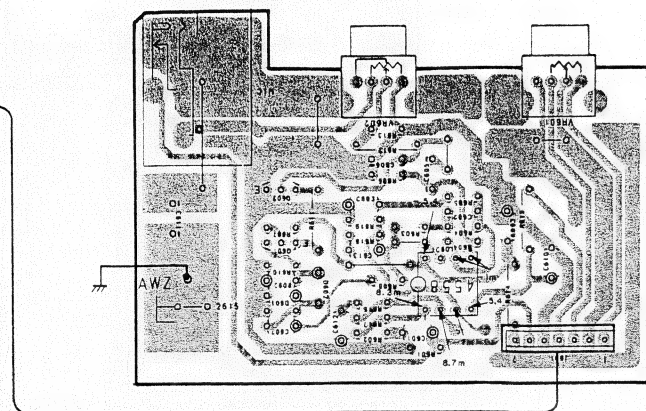
To DISPLAY assembly CN701  
(To page 27)

STANDBY assembly(AWZ3505)

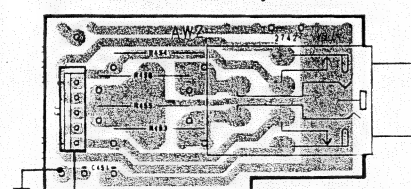




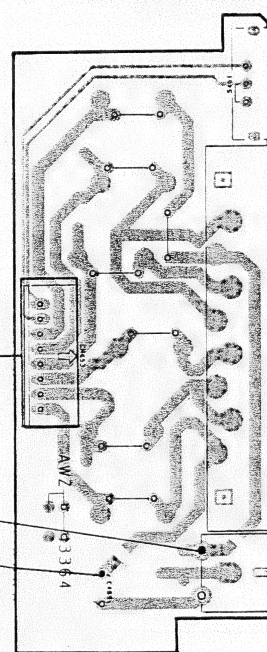
MIC assembly



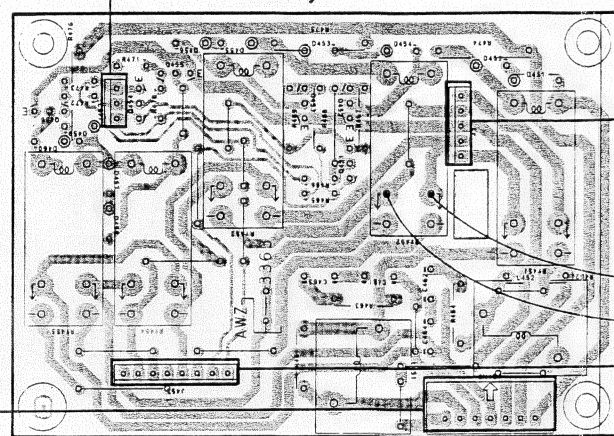
HEADPHONE assembly



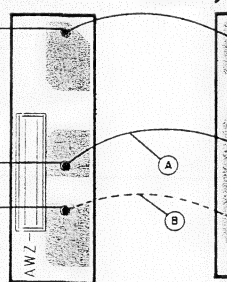
SP TERMINAL assembly



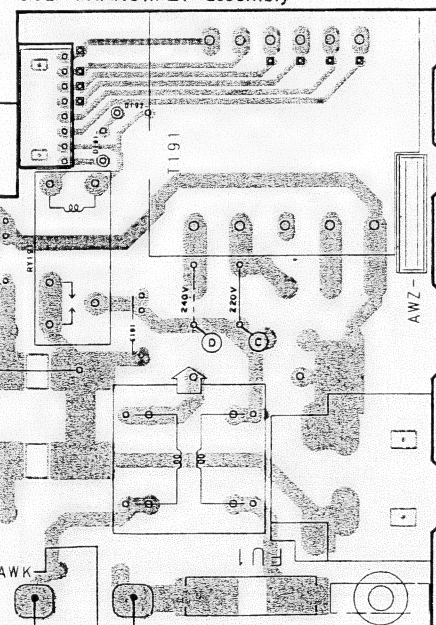
RELAY assembly



SUB TRANS(2/2) assembly

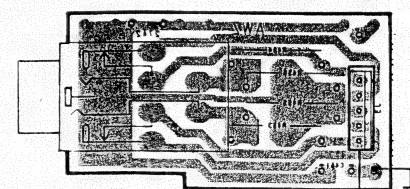


SUB TRANS(1/2) assembly

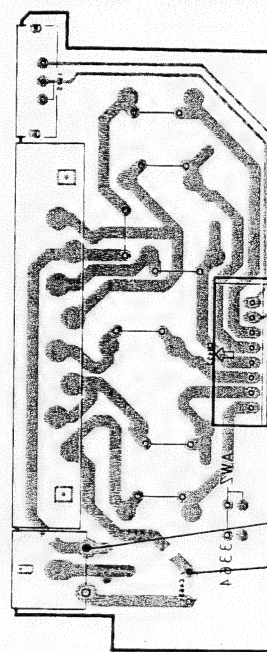


AC POWER CORD  
AC 220V  
AC 240V  
50/60Hz

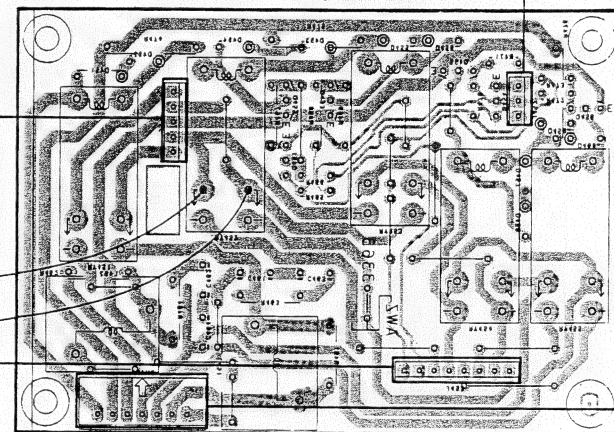
HEADPHONE assembly



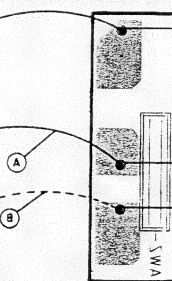
SP TERMINAL assembly



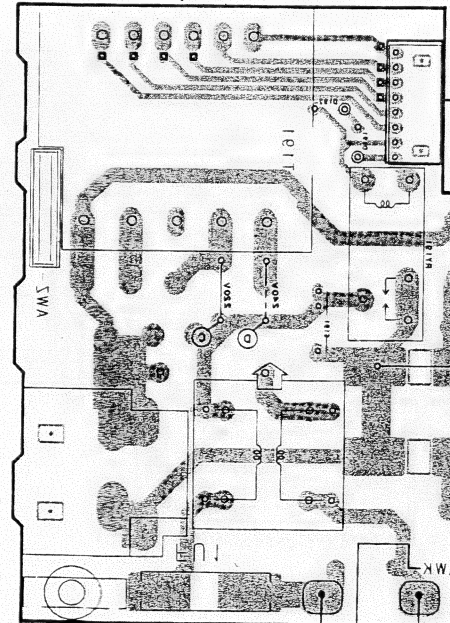
RELAY assembly



SUB TRANS(2/2) assembly



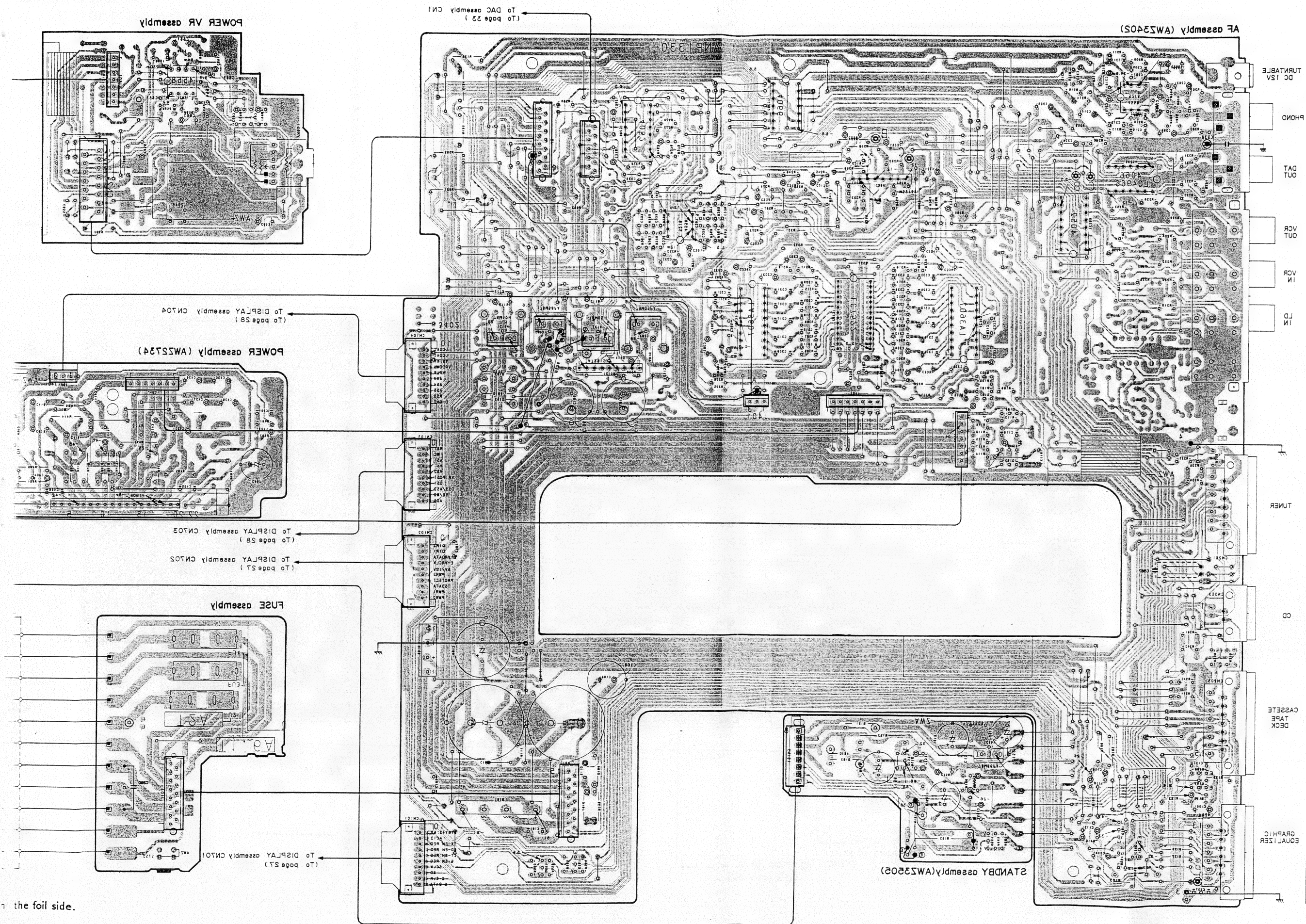
SUB TRANS(1/2) assembly



AC POWER CORD  
AC 220V  
AC 240V  
50/60Hz

This P.C.B. connection diagram is viewed from the foil side.





1220  
2220

5250

8019

19

15

851

EQUALIZER  
GRAPHIC

CD

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TUNER

1

10

23

TUO

01404

URNABLE

AF assembly (AWΣ340S)

STANDBY assembly (WZ3505)

FUSE assembly

(To page 27)  
To DISPLAY assembly CN705

(To page 28)  
To DISPLAY assembly CINT03

POWER assembly (AW52734)

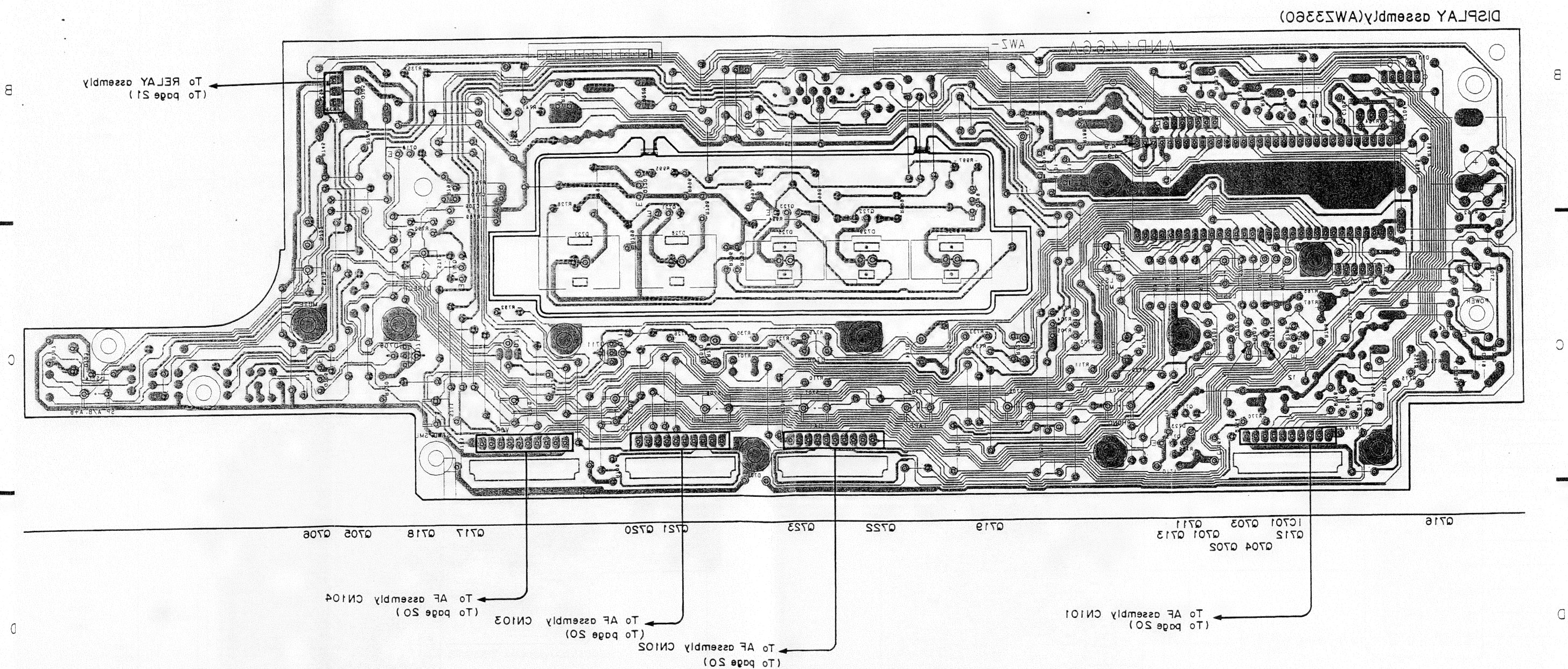
(To page 28)  
To DISPLAY assembly CN704

POWER VR assembly

(To page 33)  
To DAC assembly CN1



This P.C.B. connection diagram is viewed from the foil side.





## 4.3 DISPLAY(AWZ3360) assembly

## NOTE

1. This P.C.B. connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

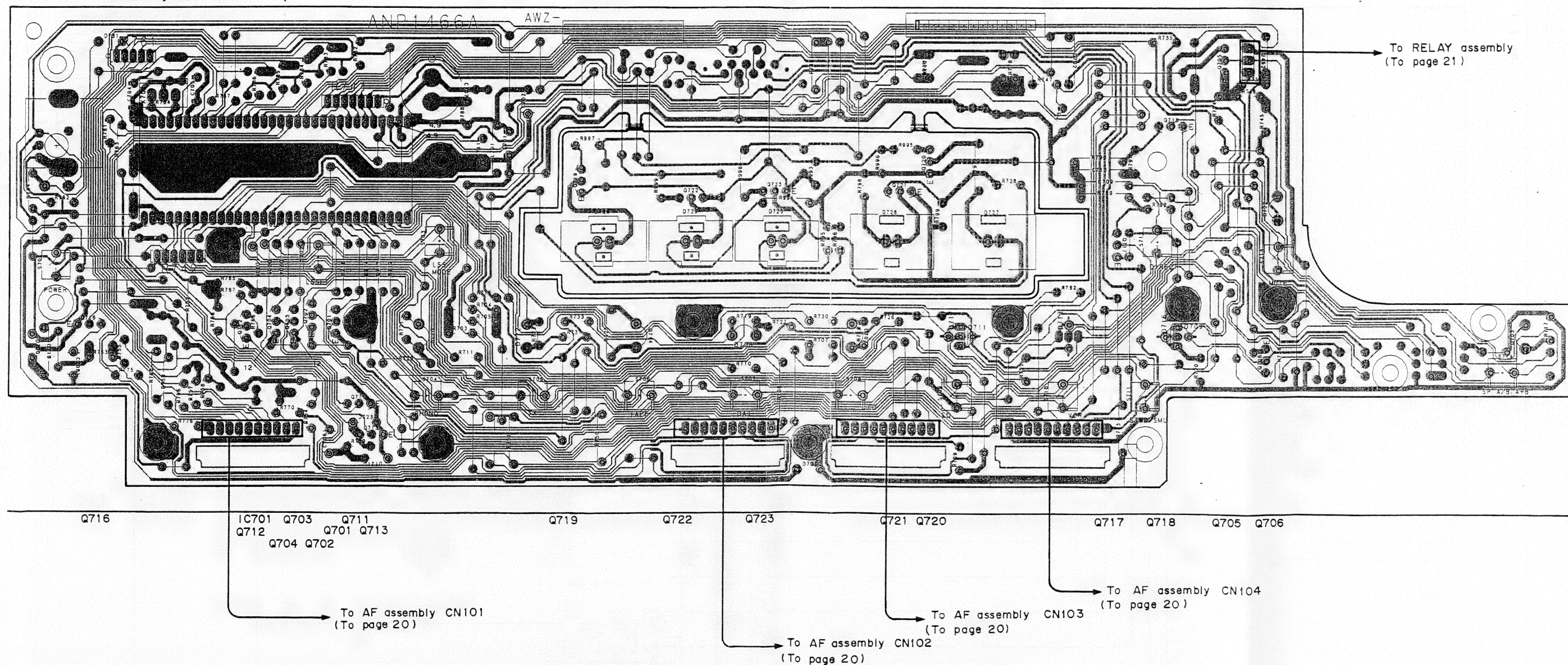
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
Q504		Transistor
Q215		Radiator type transistor
D203		Diode
R237		Resistor
C513		Capacitor (Polarity)
C518		Capacitor (Non-polarity)

## Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with ⊖ (double circles) shows negative terminal.
4. The diode terminal marked with ⊙ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

DISPLAY assembly(AWZ3360)







6

C

10

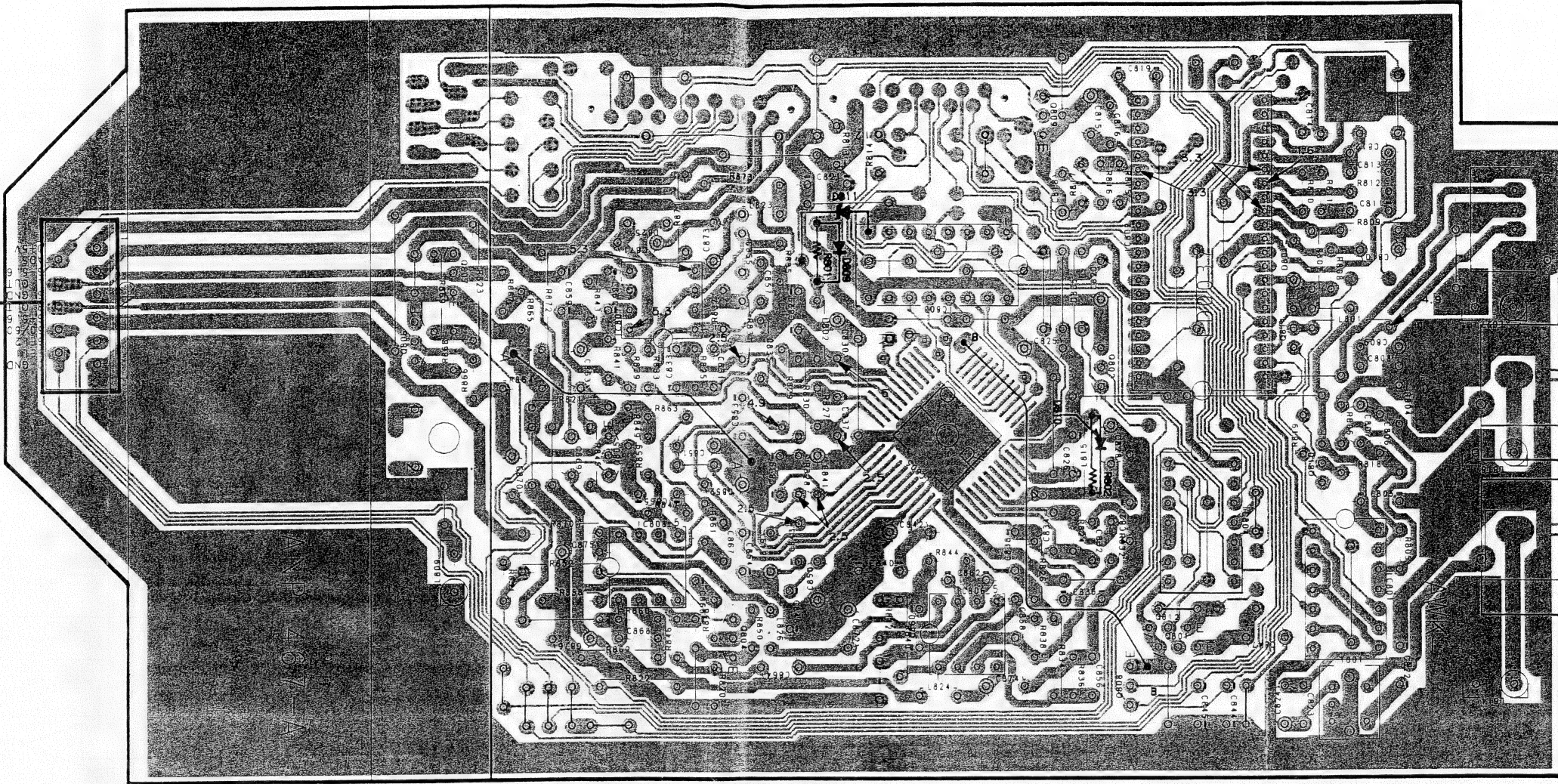






DAC assembly (AWK1384)


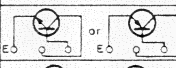

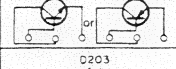

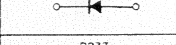

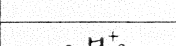

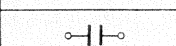


To AF assembly J1  
(To page 20)



Q806 Q807 Q805 IC807 IC803 Q809 Q802 IC802 Q811 Q810  
IC808 Q804 IC805 IC806 Q808 IC804 IC801  
Q812  
Q801

NOTE

1. This P.C.B. connection diagram is viewed from the parts mounted side.  
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)

Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with ⊙ (double circles) shows negative terminal.  
4. The diode terminal marked with ⊙ (double circles) shows cathode side.  
5. The transistor terminal to which E is affixed shows the emitter.





## 5. FOR HB AND HEWZIW TYPES

### NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

### CONTRAST OF MISCELLANEOUS PARTS

The A-Z370/HB and HEWZIW types are the same as the A-Z370/HE type with the exception of the following sections.

Mark	Symbol & Description	Part No.			Remarks
		HE type	HB type	HEWZIW type	
●	AF assembly	AWZ3402	AWZ3402	AWZ3405	
●	POWER assembly	AWZ2734	AWZ2734	AWZ2739	
	SP TERMINAL assembly	Non supply	Non supply	Non supply	
	POWER VR assembly	Non supply	Non supply	Non supply	
	HEAD PHONE assembly	Non supply	Non supply	Non supply	
	SUB TRANS assembly	Non supply	Non supply	Non supply	
	MIC assembly	Non supply	Non supply	Non supply	
⚠	AC power cord	ADG1019	ADG1087	ADG1012	
⚠	FU1 Fuse	AEK-403	AEK-512	AEK-403	
⚠	FU2,5 Fuse	AEK-017	AEK-511	AEK-017	
⚠	FU3,4 Fuse	AEK-405	AEK-510	AEK-405	
	Operating instructions (Dutch, Swedish, Spanish, Portuguese)	ARC1248	.....	.....	
	Operating instructions (English, German, French, Italian)	ARE1180	.....	.....	
	Operating instructions (English)	.....	ARB1290	.....	
	Operating instructions (German)	.....	.....	ARC1245	



#### AF assembly (AWZ3405)

The AF assembly(AWZ3405) is the same as the AF assembly(AWZ3402) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ3402	AWZ3405	
	C102, C103	CKDYF103Z50	CKDYF473Z50	
	C341-344, 347-349, 383, 386, 387	.....	CKDYF473Z50	
	C345, 346	.....	CQMA104K50	
	C351, 352	.....	ACG1020	
	C353, 354, 357, 358, 361, 362	.....	CKDYB331K50	
	C355, 356, 359, 360, 363, 364, 373-382	.....	ACG1018	
	C384, 385	.....	CKDYB391K50	
	R201, 202	RD1/8PM102J	RD1/8PM222J	

#### POWER assembly (AWZ2739)

The POWER assembly(AWZ2739) is the same as the POWER assembly(AWZ2734) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2734	AWZ2739	
	C405, 406	CCDSL470J50	CCDSL221J50	
	C431, 432	.....	CCDSL101K500	
	C433, 434	.....	CCDSL101J50	
	C435, 436	.....	CKDYB331K50	
	R425, R429, R430	.....	RD1/8PM100J	

#### SP TERMINAL assembly

The SP TERMINAL assembly (HEWZIW type) is the same as the SP TERMINAL assembly (HE and HB types) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		HE, HB types	HEWZIW type	
	C365, 366	.....	CFTXA103J50	
	C471-482	.....	CQMXA103J100	
	L353, 354	.....	ATH1002	

#### POWER VR assembly

The POWER VR assembly (HEWZIW type) is the same as the POWER VR assembly (HE and HB types) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		HE, HB types	HEWZIW type	
	C663-665	.....	CKDYB103K50	
	C666, 667	.....	CCDSL470J50	
	R700	.....	RD1/8PM100J	

#### HEAD PHONE assembly

The HEAD PHONE assembly (HEWZIW type) is the same as the HEAD PHONE assembly (HE and HB types) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		HE, HB types	HEWZIW type	
	C369, 370	.....	CKDYX473M25	

#### SUB TRANS assembly

The SUB TRANS assembly (HB type) is the same as the SUB TRANS assembly (HE and HEWZIW types) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		HE, HEWZIW types	HB type	
	AC socket (OUTLET 1P)	AKP1034	AKP1035	

**MIC assembly**

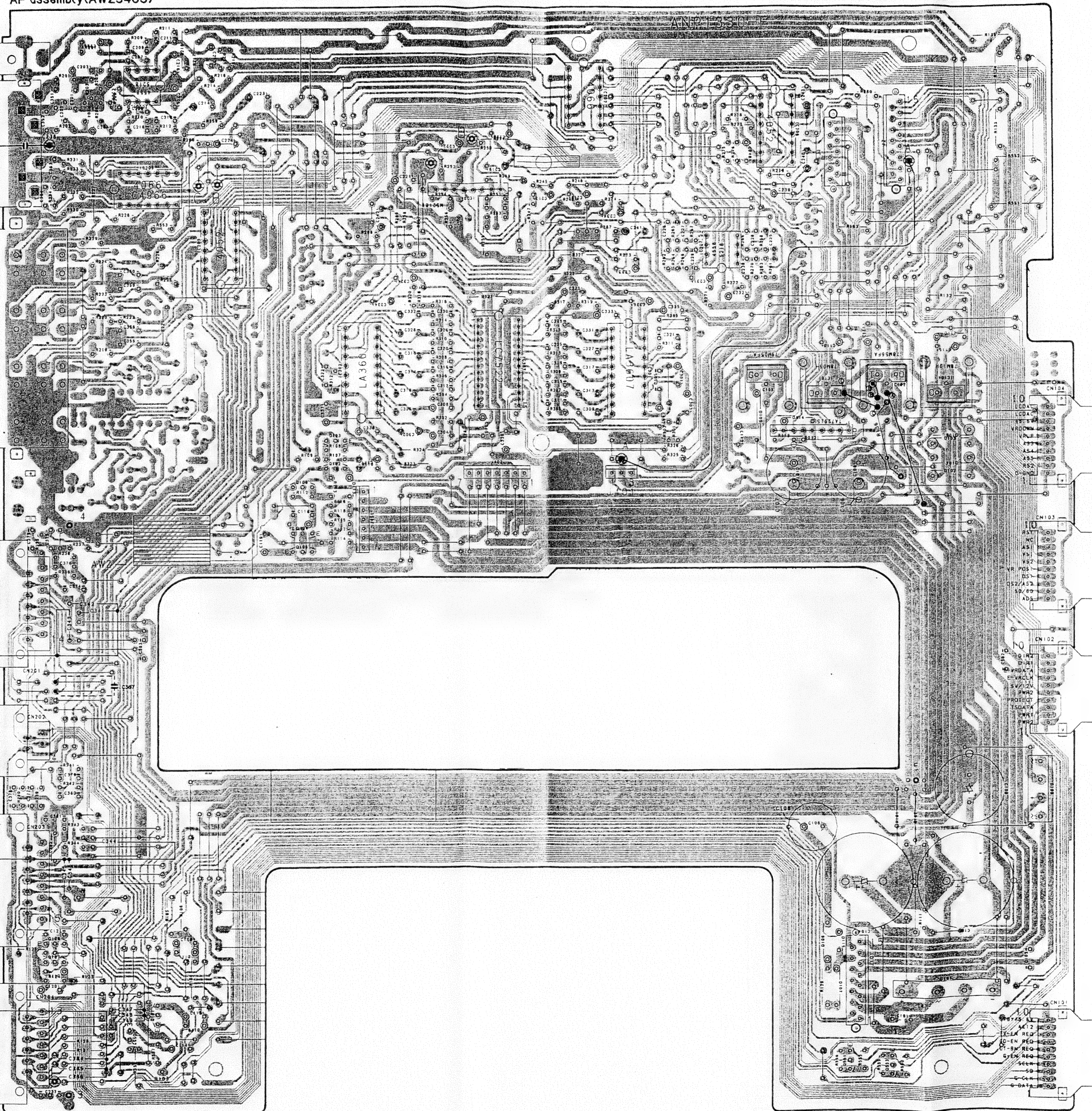
The MIC assembly (HEWZIW type) is the same as the MIC assembly (HE and HB types) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		HE, HB types	HEWZIW type	
	C371	.....	ACG1020	
	C372	.....	ACG1017	
	C604	ACG1017	ACG1020	
	L601	.....	LAUR56M	
	R351	.....	RD1/8PM222J	

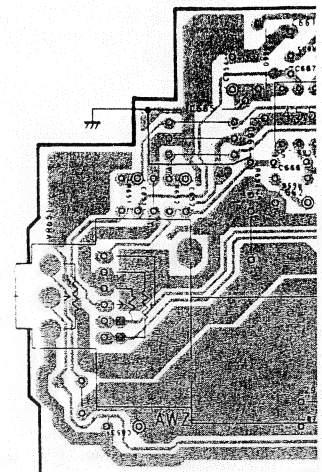
AF assembly(AWZ3405)

- IC201  
IC202  
IC206  
IC205  
IC204  
IC203  
IC207  
IC301  
IC101  
IC302  
IC105  
IC303  
Q103  
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Q105  
Q108  
Q107  
Q101  
Q552  
Q551  
Q553

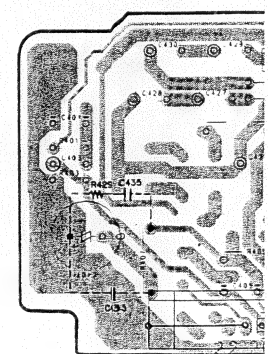
TURNTABLE  
DC 12V  
PHONO  
DAT  
OUT  
VCR  
OUT  
VCR  
IN  
LD  
IN  
TUNER  
CD  
CASSETTE  
TAPE  
DECK  
GRAPHIC  
EQUALIZER



POWER VR c



POWER assembly (AW



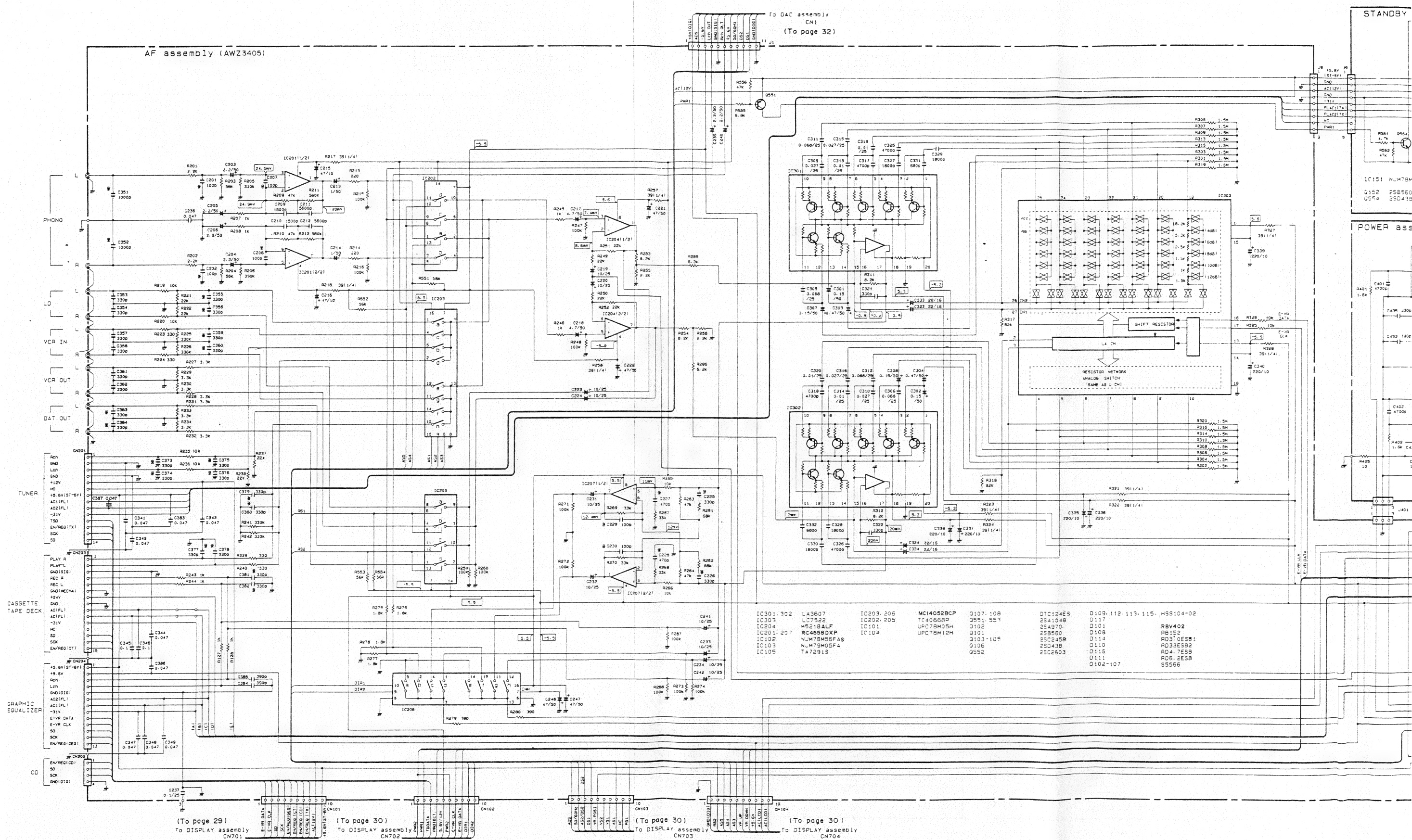


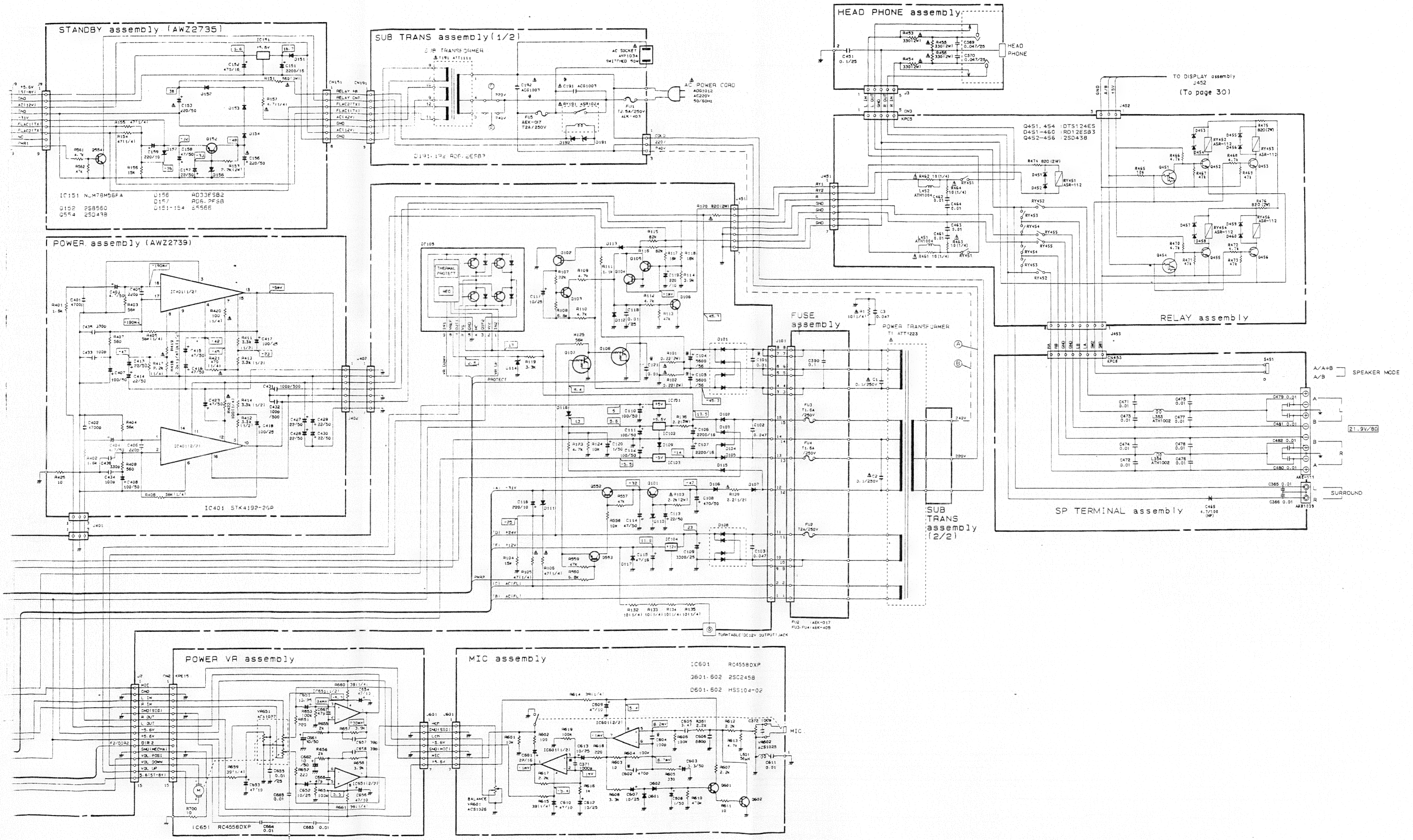
A

B

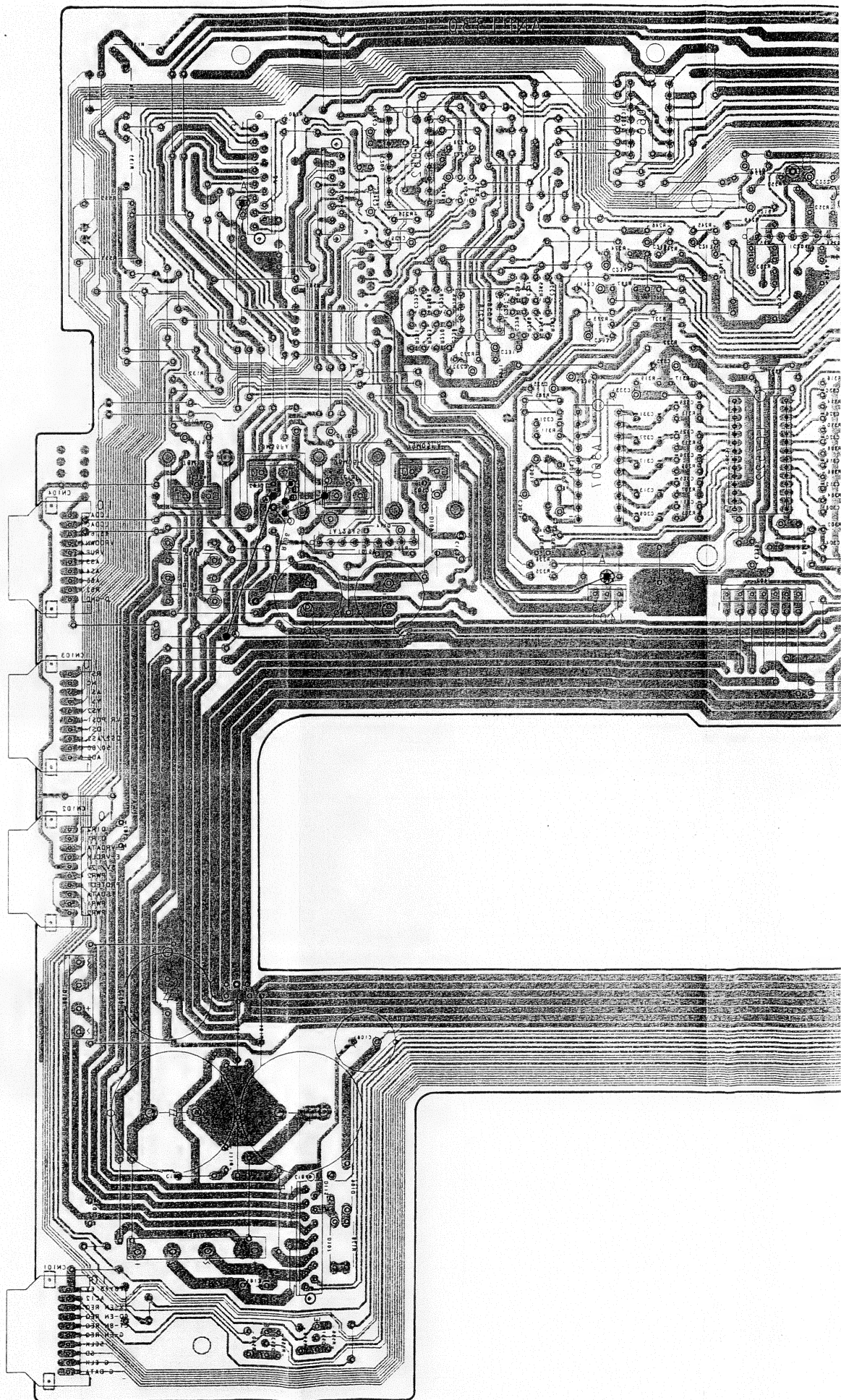
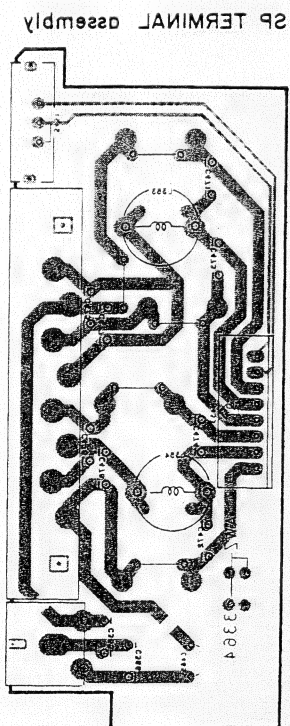
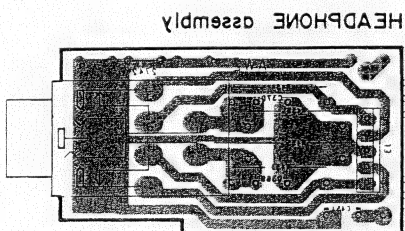
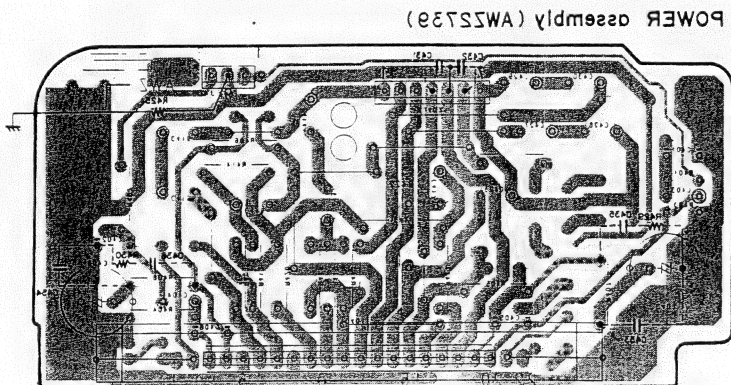
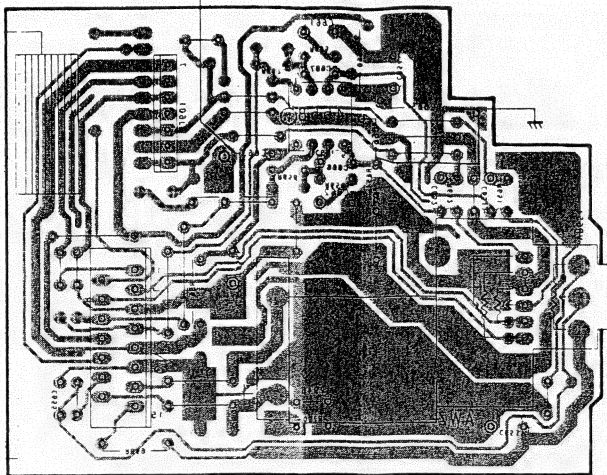
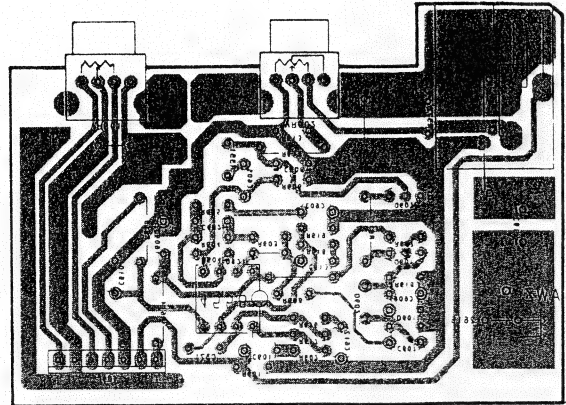
C

D









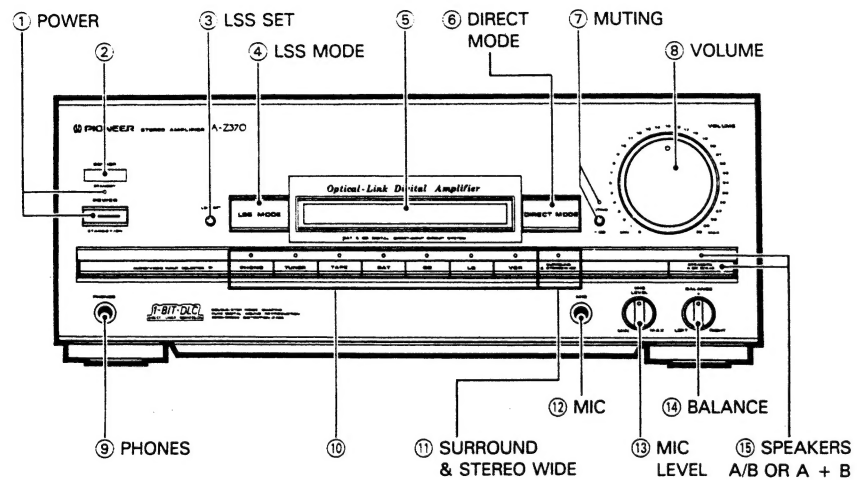
This P.C.B. connection diagram is viewed from the foil side.



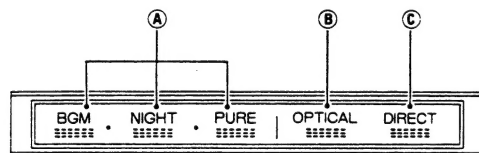


## 6. PANEL FACILITIES

Front panel



Display section





**① POWER STANDBY/ON switch/indicator**

This is the switch for electric power.

**ON** .... When set to the ON position, power is supplied and the unit becomes operational.

**STANDBY** .... When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.

The indicator above the switch lights when the power is STANDBY, and goes out during ON.

**② Remote sensor**

Use to operate the Listening Style Selector memory.

**③ LSS SET button**

Use to recall the Listening Style Selector.

**⑤ Display section**

④ This shows the position of the listening style selector.

③ This lights when you play a CD.

② This lights when you can select CD and DAT direct mode.

**⑥ DIRECT MODE button**

Use this when you want by-pass sound quality adjustment circuitry and listen to a CD or DAT in the direct mode.

**⑦ MUTING button/indicator**

Use when you want to temporarily cut sound during playback. Press again to return to the previous volume level.

**⑧ VOLUME control****⑨ PHONES jack**

For stereo headphones.

**NOTE:**

There is no output from the speakers when headphones are plugged into PHONES jack.

**⑩ Input selector buttons/indicators****[PHONO]**

Press to play records on a turntable connected to the PHONO input jacks.

**[TUNER]**

Press to listen to radio broadcast.

**[TAPE]**

Press to listen to cassette tape.

**[DAT]**

Press to listen to a DAT playing on a digital audio tape deck connected to the DAT jacks.

**[CD]**

Press to listen to compact disc.

**[LD]**

Press to play an LD on a video disc player connected to the LD input jacks.

**[VCR]**

Press to play a tape on a video cassette recorder connected to the VCR jacks.

**⑪ SURROUND & STEREO WIDE button/indicator**

By turning this button on, you can enjoy surround reproduction when rear speakers are used.

By turning this button on, you can enjoy STEREO WIDE reproduction with greater left-right spread when rear speakers are not used.

**NOTE:**

- In the case of a monaural source, SURROUND & STEREO WIDE effects cannot be obtained.
- SURROUND & STEREO WIDE functions do not operate if DIRECT MODE is on.

**⑫ MIC (microphone) jack**

This is a standard jack for connecting a microphone.

**NOTE:**

Mike mixing is not possible when CD DIRECT or DAT DIRECT are ON.

**⑬ MIC LEVEL control**

Used for adjusting the volume of microphone.

**⑭ BALANCE control**

Used for changing the balance between left and right channels. Usually set to the center position.

**⑮ SPEAKERS button (A/ B OR A + B)/indicator**

When the SPEAKER MODE selector switch on the rear panel is set to the A/B (left), use this button to switch between sound from speakers A only, and sound from speakers B only.

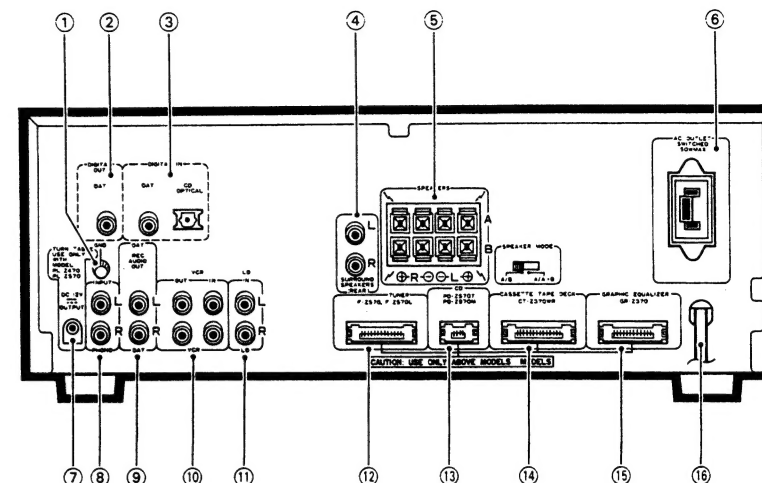
When the SPEAKER MODE selector switch is set to the A/A + B (right), use this button to switch between sound from speakers A only, and sound from both speakers A and B.

Refer to page 18 No.⑤ concerning SPEAKER MODE selector switch.

Rear panel SPEAKER MODE switch	SPEAKERS	
	Indicator off	Indicator lit
A/B	A	B
A/A + B	A	A + B

**NOTE:**

If speakers A and B are not both connected, there will be no sound when the button is set for A + B.

**REAR PANEL FACILITIES**

#### ① Ground terminal (GND)

Connect this to the ground terminal on the turntable (except for PL-Z470/PL-Z570).

#### ② DIGITAL OUT (DAT) jack

Outputs digital signal taken from CD player optical input.  
A digital audio tape deck's digital input jack (coaxial cable input) can be connected here.  
Consult with your dealer to see if it's possible to connect your digital audio tape deck.

#### ③ DIGITAL IN jacks

[DAT]  
A digital audio tape deck's digital output jack (coaxial cable output) can be connected here.  
Consult with your dealer to see if it's possible to connect your digital audio tape deck.

[CD]  
Connect a CD player's OPTICAL OUT jack.

#### ④ SURROUND SPEAKERS jacks

Connect the Surround speaker systems.

#### NOTE:

Connect a speaker system having a nominal impedance of 16  $\Omega$  or more.

#### ⑤ SPEAKERS terminals and SPEAKER MODE selector switch

A: Connect to a first set of speakers  
B: Connect to a second set of speakers

Set the selector switch to the A/B (left), and use the SPEAKERS button on the front panel to switch between sound from speakers A only, and sound from speakers B only.

If you set the selector switch to the A/A + B (right), use the SPEAKERS button on the front panel to switch between sound from speakers A only, and sound from both speakers A and B.

#### NOTE:

Connect a speaker system having a nominal impedance ranging from 8  $\Omega$  to 16  $\Omega$ .

#### ⑥ AC OUTLET (SWITCHED 50 W MAX)

Power supplied through this outlet is turned on and off by the amplifier's POWER switch. Total electrical power consumption of connected equipment should not exceed 50 W.

PD-Z570T or PD-Z970M CD player power cord can be connected.

#### NOTE:

Do not connect appliances with high power consumption such as heaters, irons, or television sets to the AC OUTLET in order to avoid overheating or fire risk.

This can cause the amplifier to malfunction.

#### ⑦ TURNTABLE (DC 12 V OUTPUT) jack

This jack supplies power to the turntable. (PL-Z470/PL-Z570)

#### ⑧ PHONO input jacks

Connect the output cord of the turntable to these jacks.

#### ⑨ DAT REC OUT jacks

Connect to audio input jacks of the digital audio tape deck.

#### ⑩ VCR jacks

IN: Connect to the audio output jacks of VCR.

OUT: Connect to audio input jacks of VCR.

#### ⑪ LD input jacks

Connect to audio output jacks of the LD player.

#### ⑫ TUNER jack

Connect the tuner cord here.

#### ⑬ CD jack

Connect the compact disc player (PD-Z570T/PD-Z970M) cord here.

#### ⑭ CASSETTE TAPE DECK jack

Connect the cassette deck cord here.

#### ⑮ GRAPHIC EQUALIZER jack

Connect the graphic equalizer cord here.

#### ⑯ Power cord

Connect this to the AC wall socket.

**PIONEER**  
The Art of Entertainment

# Service Manual

ORDER NO.  
ARP2183

## STEREO AMPLIFIER

# A-Z370 SD

### ● Refer to the service manual ARP2158, A-Z370/HE.

● This manual is applicable to A-Z370/SD type.

● This product is a component of a system. As to the system composition, refer to the system manual.

● This product does not function properly when independent; to avoid malfunctions, be sure to connect it to the prescribed system component, otherwise damage may result.

## 1. CONTRAST OF MISCELLANEOUS PARTS

### NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

The A-Z370/SD type is the same as the A-Z370/HE type with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		A-Z370/HE type	A-Z370/SD type	
$\bullet$  $\Delta$ $\Delta$ $\Delta$	AF assembly	AWZ3402	AWZ3507	
	SUB TRANS assembly	Non supply	Non supply	
	AC Power cord	ADG1019	ADG1051	
	T1 Power transformer	ATS1223	ATS1340	
	FU6 Fuse	.....	AEK-017	
	S1 Voltage select switch	.....	AKX-507	
	S2 Voltage select switch	.....	AKX1004	
	Operating instructions (Dutch, Swedish, Spanish, Portuguese)	ARC1248	.....	
	Operating instructions (English, German, French, Italian)	ARE1180	.....	
	Operating instructions (English)	.....	ARB1290	
	Operating instructions (Spanish)	.....	ARC1246	

**PIONEER ELECTRONIC CORPORATION** 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan

**PIONEER ELECTRONICS SERVICE INC.** P.O. Box 1760, Long Beach, California 90801 U.S.A.

**PIONEER ELECTRONICS OF CANADA, INC.** 505 Cochrane Drive, Markham, Ontario L3R 8E3 Canada

**PIONEER ELECTRONIC [EUROPE] N.V.** Keetberglaan 1, 2740 Beveren, Belgium

**PIONEER ELECTRONICS AUSTRALIA PTY. LTD.** 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911

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**AF assembly(AWZ3507)**

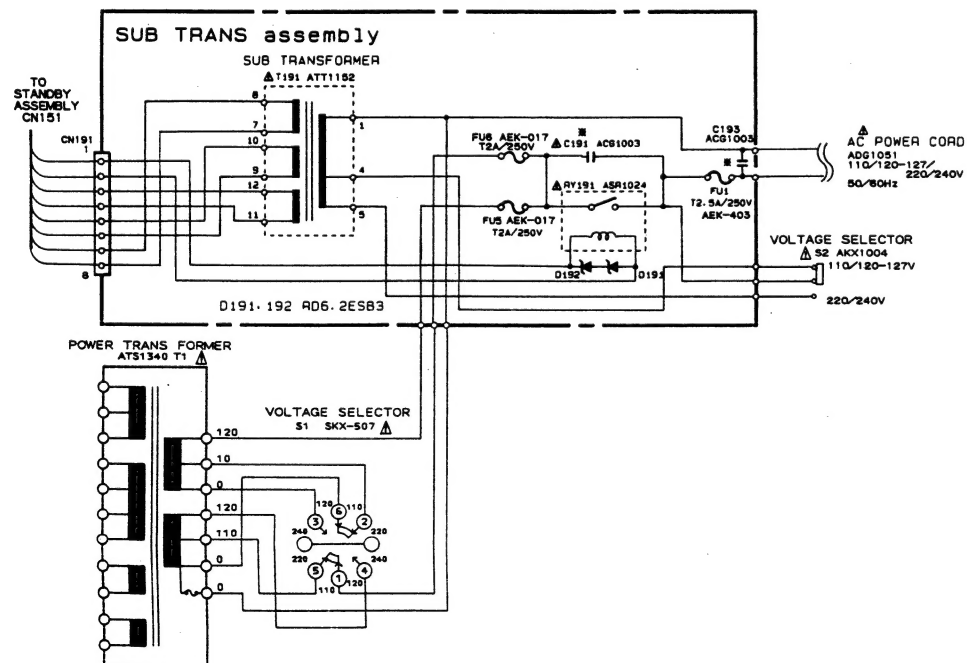
The AF assembly(AWZ3507) is the same as the AF assembly(AWZ3402) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ3402	AWZ3507	
	R111	RD1/8PM112J	RD1/8PM152J	

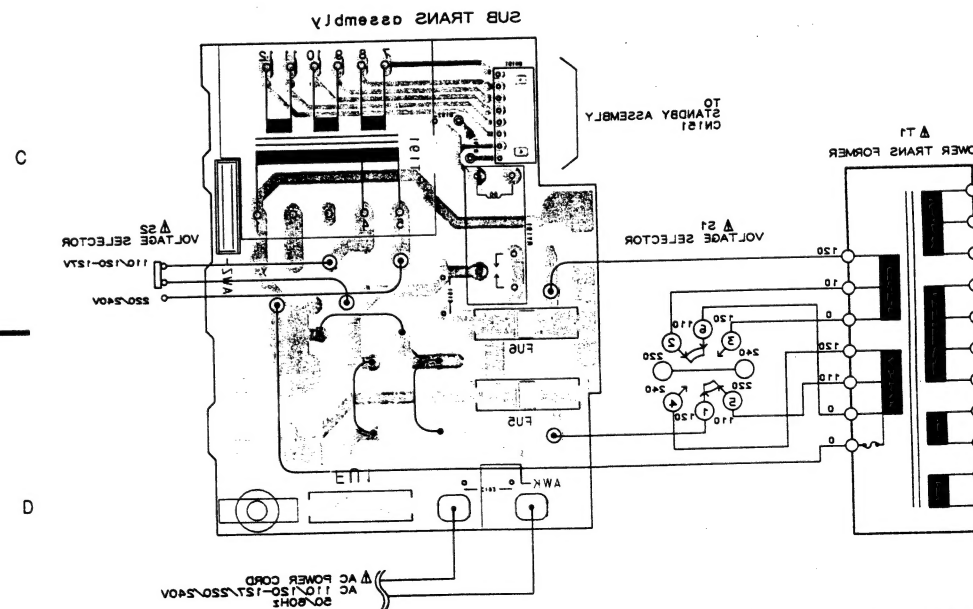
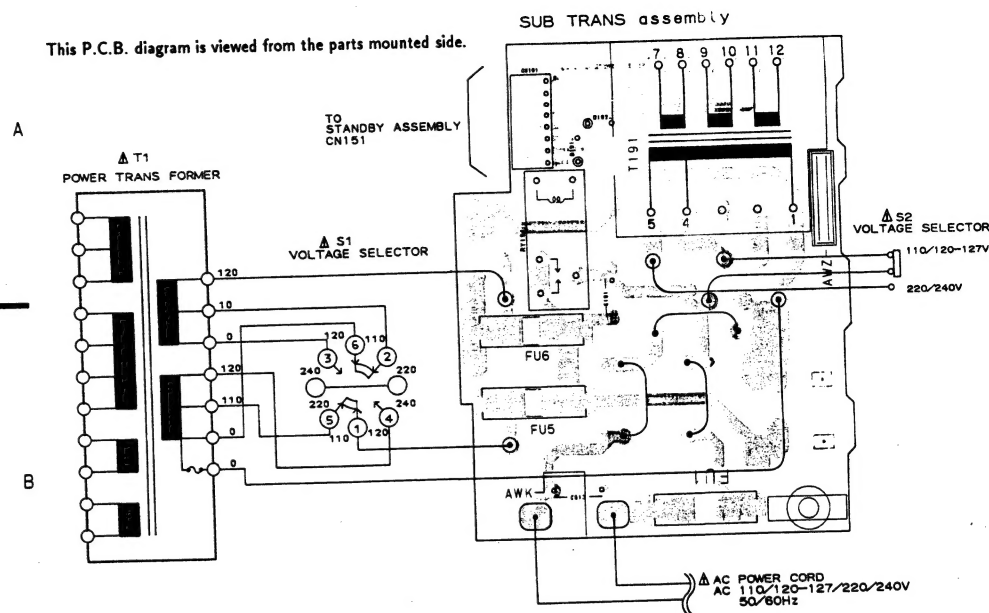
**SUB TRANS assembly**

The SUB TRANS assembly (SD type) is the same as the SUB TRANS assembly (HE type) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		HE type	SD type	
	C192(0.01/AC 400V)	ACG1003	.....	
	C193(0.01/AC 400V)	.....	ACG1003	
	T191	ATT1115	ATT1152	
	AC socket (OUTLET 1P)	AKP1034	.....	

**2. SCHEMATIC DIAGRAM****3. P.C.BOARD DIAGRAM**

This P.C.B. diagram is viewed from the parts mounted side.



This P.C.B. diagram is viewed from the foil side.